



**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
00-039

Total Pages in this Submission

**Application Elements (Continued)**

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☒ Formal                      Number of Sheets                      21
- b. ☐ Informal                      Number of Sheets                      \_\_\_\_\_
4. ☒ Oath or Declaration
- a. ☒ Newly executed *(original or copy)*                      ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney                      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under  
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

8. ☒ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☒ Information Disclosure Statement/PTO-1449                      ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class                      ☒ Express Mail *(Specify Label No.):* EL510722369US

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
00-039

Total Pages in this Submission

## Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

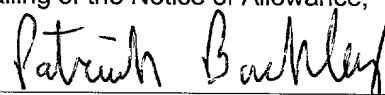
16. ☐ Additional Enclosures (please identify below):

## Fee Calculation and Transmittal

### CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	37	- 20 =	17	x \$18.00	\$306.00
Indep. Claims	4	- 3 =	1	x \$80.00	\$80.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$710.00
OTHER FEE (specify purpose) Assignment Recordal Fee					\$40.00
TOTAL FILING FEE					\$1,136.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-0271 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$1,134.00 as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

  
Signature

Dated: October 6, 2000

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cc:

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Jay S. WALKER et al.	)	Customer No.:	22927
		)		
For:	SYSTEMS AND METHODS WHEREIN A SECURITY DEPOSIT FACILITATES A TRANSACTION IN WHICH A BENEFIT IS APPLIED IN EXCHANGE FOR PERFORMANCE OF A TASK	)	Examiner	Not Yet Assigned
		)		
Serial No.:	Not Yet Assigned	)	Group Art Unit:	Not Yet Assigned
		)		
Filing Date:	October 6, 2000	)	Docket No.:	00-039

10/06/00  
09/685079  
U.S. PTO

**BOX PATENT APPLICATIONS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**TRANSMITTAL LETTER**

Sir:

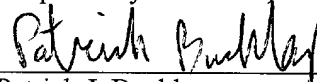
Applicants hereby submit the following documents for the above-identified patent application:

1. Certificate of Mailing By Express Mailing (37 CFR 1.10) No. EL510722369US;
2. Utility Patent Application Transmittal Letter (Large Entity);
3. Patent Application (39 pgs.);
4. Formal Drawings (Figs. 1-12, 21 pgs.)
5. Executed Combined Declaration and Power of Attorney;
6. Recordation Cover Sheet;
7. Executed & Notarized Assignment of Invention, Rights and Interest in Invention;
8. Information Disclosure Statement;
9. PTO Form 1449 w/ 38 references cited therein; and
10. Acknowledgment Postcard.

The Commissioner is hereby authorized to charge \$1,136.00 to Deposit Account No. 50-0271 Order No. 00-039 for the fees required. The Commissioner is further authorized to charge any further required fees, or to credit any overpayment, to Deposit Account No. 50-0271 Order No. 00-039. A duplicate copy of this authorization is attached for such purpose.

October 6, 2000  
Date

Respectfully submitted,



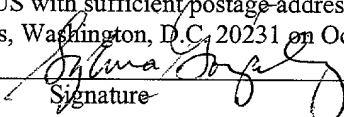
Patrick J. Buckley  
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Sylvia Gonzalez

Typed Name of Person Making Deposit

  
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Date

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jay S. WALKER et al. ) Customer No.: 22927  
 )  
 )  
 For: SYSTEMS AND METHODS ) Examiner Not Yet Assigned  
 WHEREIN A SECURITY DEPOSIT )  
 FACILITATES A TRANSACTION IN )  
 WHICH A BENEFIT IS APPLIED IN )  
 EXCHANGE FOR PERFORMANCE )  
 OF A TASK )  
 )  
 Serial No.: Not Yet Assigned ) Group Art Unit: Not Yet Assigned  
 )  
 Filing Date: October 6, 2000 ) Docket No.: 00-039



## BOX PATENT APPLICATIONS

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Sylvia Gonzalez

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000001 5405860

**SYSTEMS AND METHODS WHEREIN A SECURITY DEPOSIT  
FACILITATES A TRANSACTION IN WHICH A BENEFIT IS APPLIED  
IN EXCHANGE FOR PERFORMANCE OF A TASK**

**CROSS REFERENCE TO RELATED APPLICATIONS**

The present application claims the benefit of U.S. Provisional Application Serial No. 60/208,731 entitled "WEBHOUSE® Rebate Certificates" filed June 2, 2000. The entire content of this application is incorporated herein by reference.

The present application is related to: U.S. Patent Application Serial No. 09/337,906 entitled "Purchasing Systems and Methods Wherein a Buyer Takes Possession at a Retailer of a Product Purchased Using a Communication Network," and filed June 22, 1999, which is a continuation-in-part of U.S. Patent Applications Serial No. 08/889,503 entitled "System and Process for Local Acquisition of Products Priced Online" and filed July 8, 1997; U.S. Patent Application Serial No. 09/219,267 entitled "Method and Apparatus for Facilitating Electronic Commerce Through Providing Cross-Benefits During a Transaction" and filed December 23, 1998; U.S. Patent Application Serial No. 09/282,747 entitled "Method and Apparatus for Providing Cross-Benefits Based on a Customer Activity" and filed March 31, 1999; U.S. Patent Application Serial No. 09/274,281 entitled "Method and Apparatus for Providing Cross-Benefits via a Central Authority" and filed March 22, 1999; U.S. Patent Application Serial No. 09/322,351 entitled "Method and Apparatus for Providing Cross Benefits and Penalties" and filed May 28, 1999; U.S. Patent Application Serial No. 09/504,180 entitled "Systems and Methods Using a Representation of a Stored Benefit To Facilitate a Transaction" and filed February 15, 2000; U.S. Patent Application Serial No. 08/932,984 entitled "System and Method for Issuing Security Deposit Guarantees Based on Credit Card Accounts" and filed September 18, 1997; and U.S. Patent Application Serial No. 08/943,483 entitled "System and Method for Facilitating Acceptance of Conditional Purchase Offers (CPOs)" and filed on October 3, 1997, which is a continuation-in-part of U.S. Patent Application Serial No. 08/923,683

entitled "Conditional Purchase Offer (CPO) Management System For Packages" and  
filed September 4, 1997, which is a continuation-in-part of U.S. Patent Application  
Serial No. 08/889,319 entitled "Conditional Purchase Offer Management System" and  
filed July 8, 1997, which is a continuation-in-part of U.S. Patent Application Serial No.  
5 08/707,660 entitled "Method and Apparatus for a Cryptographically Assisted  
Commercial Network System Designed to Facilitate Buyer-Driven Conditional  
Purchase Offers" filed on September 4, 1996 and issued as U.S. Patent No. 5,794,207  
on August 11, 1998. The entire contents of these application are incorporated herein by  
reference.

10  
FIELD

The present invention relates to commerce. In particular, the present invention  
relates to systems and methods wherein a security deposit is used to facilitate a  
15 transaction.

BACKGROUND

Typically, a buyer visits one or more retail stores to shop for a product. When  
20 the buyer finds the product he or she is looking for, at a reasonable price, the buyer  
purchases the product from the retail store. This traditional method, however, may  
require that the buyer visit a number of retail stores to determine a reasonable price for  
the product. Moreover, a retail store must attract buyers, such as by spending money on  
advertising. For example, when a new retail store opens for business, many buyers will  
25 not know what types of products are sold by the retail store. In addition, the traditional  
method does not let a party other than the retail store, such as a product manufacturer,  
establish a pricing relationship directly with a buyer. For example, a manufacturer may  
sell a product to a retail store (perhaps through a distributor) that ultimately determines  
the price at which the product is sold to a buyer.

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Recently, products have been sold to buyers via communication networks such as the Internet (*e.g.*, via an online Web merchant). Internet sales have been growing steadily over the past few years, and are expected to increase, because buyers are attracted to the ease and convenience of shopping online. For example, a buyer can shop online from the comfort of home and receive information from a number of Web merchants to determine a reasonable price for a product.

The sale of products from Web merchants to buyers, however, has a number of disadvantages. For example, in a typical sale via the Internet, a traditional retail store (*e.g.*, a retail store which is not online) is typically left completely out of the transaction. In addition to losing a potential profit from the sale of the product itself, such a retail store loses the chance to sell additional products to the buyer, such as product accessories (*e.g.*, batteries). Moreover, the retail store cannot sell unrelated products that attract the buyer's attention while he or she is in the store. This may still be a problem even if the retail store invested the time and money required to establish an online service. Moreover, a retail store's online service may simply shift sales that would have otherwise occurred at the actual store (as opposed to attracting new buyers).

U.S. Patent Application Serial No. 09/337,906 filed June 22, 1999 and entitled "Purchasing Systems and Methods Wherein a Buyer Takes Possession at a Retailer of a Product Purchased Using a Communication Network" describes systems wherein a buyer takes possession of a product at a retailer. The purchasing system communicates with a buyer through a communication network to establish a first price for a product between the buyer and a seller. For example, the purchasing system may evaluate a buyer offer, including an offer price, related to the product. If the buyer offer is acceptable, the purchasing system arranges for the buyer to take possession of the product at a retailer, different from the seller, that offers the product for sale at a second price. The buyer provides a payment, based on the first price, to the purchasing system in exchange for the right to take possession of the product at the retailer.

No matter what type of system is used to sell a product, some buyers may not be willing, or able, to pay a retail price for the product (*e.g.*, a merchant's retail price). One way to address this problem is to reduce the retail price associated with the product. Unfortunately, reducing the retail price also reduces any profit from the sale



of the product, and the reduced profit may not be offset by any increase in the number of products that are sold.

Instead of simply reducing the retail price, a merchant (or manufacturer) may distribute coupons that discount the price associated with the product. This also  
5 reduces any profit with respect to those transactions in which a coupon is redeemed. Moreover, the discount associated with a coupon is traditionally revealed to buyers, preventing the discount from being adjusted as appropriate (*e.g.*, by increasing the discount if the coupon is not generating sales or by adjusting the discount based on information associated with a particular buyer). In addition, the value of a coupon is  
10 generally determined when the coupon is provided to a buyer, and not when the buyer redeems the coupon. This also prevents the discount from being adjusted as may be appropriate (*e.g.*, based on supply, demand or any other information at the time of redemption).

Instead of reducing the price associated with a product, it is also known that a  
15 merchant can offer a promotion to encourage a buyer to purchase a product. For example, a merchant may advertise a “buy one get one free” promotion or provide a discount to buyers who establish a credit card account associated with the merchant. Similarly, a number of merchants can work together to offer a promotion. For example, a first merchant may advertise that if a buyer purchases a first product from the first  
20 merchant, a second product can be purchased at a reduced price from, or be given away by, a second merchant.

U.S. Patent Application Serial No. 09/219,267 filed December 23, 1998 and entitled “Method and Apparatus for Facilitating Electronic Commerce Through Providing Cross-Benefits During a Transaction” describes systems wherein a merchant  
25 server of a first merchant receives an indication of products that a buyer is to purchase via a Web site. In response, the merchant server provides an offer for a benefit from a second merchant, such as by providing a cross-benefit or subsidy offer. If the buyer indicates acceptance of the subsidy offer, the benefit is applied to the product or products being purchased. In exchange, the buyer agrees to participate in a transaction  
30 with the second merchant.

However, the buyer may not actually participate in the transaction with the second merchant as he or she agreed. For example, the customer may forget to participate in the transaction or later change his or her mind about the agreement. In this case, the first merchant may want to recover the benefit that was applied to the product or products being purchased. However, the first merchant may not be able to locate the customer or may be otherwise unable to recover the benefit from the customer.

## SUMMARY

To alleviate problems inherent in the prior art, the present invention introduces systems and methods using a security deposit to facilitate a transaction.

According to one embodiment of the present invention, it is arranged for a benefit to be applied to a transaction in exchange for a future performance of a task by a customer. The customer provides a security deposit, and the security deposit is returned to the customer based on the performance of the task.

According to another embodiment, an indication is received that a customer is interested in purchasing an item from a merchant. Based on the received indication, an offer is transmitted to the customer. The offer is to apply a benefit, provided by a subsidy provider, to the transaction in exchange for a future performance of a task by the customer. A payment identifier is received from the customer, and it is arranged for the customer to provide payment of a security deposit using the payment identifier. The performance of the task by the customer is verified, and the security deposit is returned to the customer based on the performance of the task.

According to another embodiment, a security deposit is received from a customer, and a subsidy amount is applied to a transaction in exchange for a future performance of a task by the customer. Security deposit information is transmitted, the security deposit information enabling the customer to receive the security deposit upon performance of the task.

According to another embodiment, a benefit is applied to a transaction in exchange for a future performance of a task by a customer, the benefit being supplied by a subsidy provider. It is arranged for the customer to provide a security deposit, and compensation is received in exchange for facilitating the transaction.

5 According to another embodiment, a customer arranges to have a benefit applied to a transaction in exchange for a future performance of a task. A security deposit is provided (*e.g.*, to a merchant), and the security deposit is returned based on the performance of the task.

One embodiment of the present invention comprises: means for arranging for a  
10 benefit to be applied to a transaction in exchange for a future performance of a task by a customer; means for arranging for the customer to provide a security deposit; and means for arranging for the security deposit to be returned to the customer based on the performance of the task.

With these and other advantages and features of the invention that will become  
15 hereinafter apparent, the nature of the invention may be more clearly understood by reference to the following detailed description of the invention, the appended claims and the several drawings attached herein.

#### BRIEF DESCRIPTION OF THE DRAWINGS

20 FIG. 1 is a flow chart of a transaction method according to an embodiment of the present invention.

FIG. 2A is a block diagram overview of a transaction system according to an embodiment of the present invention.

25 FIG. 2B is a block diagram overview of a transaction system according to another embodiment of the present invention.

FIGS. 3A through 3E are transaction timelines according to some embodiments of the present invention.

FIGS. 4A through 4E are transaction flow diagrams according to some  
30 embodiments of the present invention.

FIG. 5 is a block diagram of a controller according to an embodiment of the present invention.

FIG. 6 is a tabular representation of a portion of a buyer database according to an embodiment of the present invention.

5        FIG. 7 is a tabular representation of a portion of a task database according to an embodiment of the present invention.

FIG. 8 is a tabular representation of a portion of a rebate certificate database according to an embodiment of the present invention.

10       FIG. 9 is a tabular representation of a portion of a rebate code database according to an embodiment of the present invention.

FIG. 10 is a flow chart of a transaction method according to an embodiment of the present invention.

FIG. 11 is a flow chart of a transaction method according to another embodiment of the present invention.

15       FIG. 12 is a flow chart of a transaction method according to another embodiment of the present invention.

#### DETAILED DESCRIPTION

20       The present invention is directed to systems and methods wherein a security deposit is used to facilitate a transaction, such as a transaction in which a customer purchases an “item” from a merchant. As used herein, an item refers to anything that can be purchased or sold by a customer (*e.g.*, a product and/or a service). Airline tickets, consumer electronics, information delivered via a communication network,  
25       technical support service, and grocery products are some examples of items that can be purchased by a customer. Note that a customer may instead purchase an interest in an item (*e.g.*, a customer may lease a product from a merchant). Moreover, as used herein, a “customer” or a “merchant” can be any party (*e.g.*, an individual or a company) that exchanges an item or an interest in an item.

30       Turning now in detail to the drawings, FIG. 1 is a flow chart of a transaction method according to an embodiment of the present invention. At 102, it is arranged for

1  
a benefit to be applied to a transaction in exchange for a future performance of a task by  
a customer. For example, the customer may indicate to a merchant that he or she is  
interested in purchasing a product (*e.g.*, by bringing the product to a point of sale  
terminal). The merchant may then offer to provide the item to the customer at a  
5 reduced price if the customer agrees to test drive a particular automobile within thirty  
days.

The merchant may make such an offer, for example, because an automobile  
manufacturer had previously agreed to provide a payment for each customer who test  
drives that automobile. Note that the payment provided by the automobile  
10 manufacturer may be less than the amount the price was reduced (*i.e.*, the merchant is  
partially funding the reduction in price for the customer), equal to the amount the price  
was reduced, or more than the amount the price was reduced (*i.e.*, the merchant will  
actually increase an amount of profit associated with the transaction despite the  
reduction in price). Also note that, according to one embodiment, the task performed  
15 by the customer is associated with a party other than the merchant (*e.g.*, the task may be  
associated with a third party subsidy provider or both the merchant and the third party  
subsidy provider).

According to an embodiment of the present invention, it is arranged for the  
customer to provide a security deposit at 104. For example, the customer may provide  
20 a payment of a security deposit amount to the merchant.

At 106, it is arranged for the security deposit to be returned to the customer  
based on the performance of the task. For example, an automobile dealership may  
return the security deposit amount to the customer after he or she test drives the  
automobile.

25 A more detailed description of embodiments of the present invention will now  
be provided with respect to the transaction systems shown in FIGS. 2A and 2B.

### Transaction Systems

30 Turning now in detail to the drawings, FIG. 2A is a block diagram overview of  
a transaction system 200 according to one embodiment of the present invention. The

transaction system 200 includes a customer device 210 in communication with a merchant device 220. As used herein, a device (including the customer device 210, the merchant device 220, and a subsidy provider device 230) may communicate, for example, through a communication network such as a Local Area Network (LAN), a  
5 Wide Area Network (WAN), a Metropolitan Area Network (MAN), a Public Switched Telephone Network (PSTN), or an Internet Protocol (IP) network such as the Internet, an intranet or an extranet. Moreover, as used herein, a communication network includes those enabled by wired or wireless technology.

The merchant device 220 is also in communication with a subsidy provider  
10 device 230. Note that the devices shown in FIG. 2A may not be in constant communication. For example, the customer device 210 may only communicate (i) with the merchant device 220 via the Internet when attached to a “docking” station or “cradle” or otherwise in communication with another device such as a Personal Computer (PC) and (ii) with the subsidy provider device 230 via an Infra Red (IR) port  
15 when near a subsidy provider kiosk.

In one embodiment of the present invention, the customer device 210 communicates with a remote Web-based merchant device 220 (*e.g.*, a server) via the Internet. Although embodiments of the present invention will be described with respect to information exchanged using a Web site, according to other embodiments of the  
20 present invention information can be exchanged using, for example, a wired or wireless telephone, an Interactive Voice Response Unit (IVRU), a facsimile machine, postal mail, electronic mail, a WEBTV® interface, a cable network interface, a wireless device, a kiosk, a shopping cart device, and/or a Point Of Sale (POS) terminal.

The customer device 210 may be, for example, a PC, a portable computing  
25 device such as a Personal Digital Assistant (PDA), a wired or wireless telephone, a one-way or two-way pager, a kiosk, an Automated Teller Machine (ATM), and/or any other appropriate communication device. Note that the merchant device 220 may communicate with a number of customer devices 210 of different types (*e.g.*, some customers may use PDAs while others use kiosks).

30 In general, the devices shown in FIG. 2A may be any devices capable of performing methods in accordance with the present invention. Note that any of the

customer device 210, the merchant device 220, and/or the subsidy provider device 230 may be incorporated in a single device (*e.g.*, a kiosk located in the merchant's store may serve as both the customer device 210 and the merchant device 220).

As will be explained, the transaction system 200 may be used to facilitate a  
5 transaction in which a customer purchases an item from a merchant. According to another embodiment, the transaction system 200 facilitates a transaction in which a customer sells an item (*e.g.*, to a merchant or to another customer).

According to an embodiment of the present invention, the merchant device 220  
10 arranges for a benefit to be applied to the customer's transaction in exchange for a future performance of a task by the customer, such as a task associated with a subsidy provider.

The "benefit" applied to the transaction may comprise, for example, a reduction in an amount of payment provided by the customer. For example, a customer may receive an item in exchange for providing payment of fifty percent of (or ten dollars  
15 less than) a retail price associated with the item. According to another embodiment, the benefit may comprise a supplemental item (*e.g.*, a peripheral device) or a substitute item (*e.g.*, a higher quality item) received by the customer. The benefit may also comprise a payment of an alternate currency to the customer (*e.g.*, a gift certificate or an award of frequent flier miles). According to another embodiment, the benefit  
20 comprises an improved transaction term (*e.g.*, an extended warranty or an improved interest rate). When the transaction involves a customer selling a product or a service, the benefit may comprise an increased amount of payment received by the customer.

According to another embodiment, the benefit comprises an increased amount associated with an offer provided by a customer. For example, a customer who submits  
25 a bid to purchase an item via an online auction Web site may have his or her bid increased. According to still another embodiment, the benefit comprises an increased probability associated with the transaction. For example, a customer who has a fifty percent chance of receiving an item in a transaction may receive a benefit such that he or she now has a sixty percent chance of receiving the item.

30 Note that the benefit may be applied by, for example, the merchant or the subsidy provider. According to some embodiments, the benefit is applied to another

transaction (*e.g.*, a subsequent transaction) and/or another customer (*e.g.*, a friend or family member).

According to one embodiment of the present invention, the same predetermined benefit is applied to all transactions. According to another embodiment, a benefit to be  
5 applied to the transaction is determined (*e.g.*, by the merchant device 220 or the subsidy provider device 230). The benefit may be based on, for example, information associated with the transaction (*e.g.*, the benefit may be based on a time of day associated with the transaction). The benefit may also be based on information associated with the customer, such as whether he or she is a new customer or a  
10 customer who has performed tasks in the past. The benefit may also be based on information associated with the task or information associated with an item purchased by the customer. For example, the benefit may be based on an item price (*e.g.*, a retail price or a cost associated with the item) or an item category (*e.g.*, whether the item is a software program or an airline ticket). The benefit may also be based on information  
15 associated with the merchant or the subsidy provider (*e.g.*, a current customer acquisition rate). According to another embodiment of the present invention, a customer may use his or her customer device 210 to request a particular benefit.

According to one embodiment of the present invention, the merchant device 220  
arranges for the benefit to be applied to the transaction by transmitting to the customer  
20 device 210 an offer to apply the benefit to the transaction in exchange for the future performance of the task by the customer. In this case, the customer may use his or her customer device 210 to transmit a response to the offer to the merchant device 220.

Such an offer to apply a benefit may be transmitted by the merchant device 220  
in response to an indication that the customer is interested in purchasing an item. For  
25 example, the indication may comprise an order for the item (*e.g.*, an order received at a POS terminal or via a Web site) or an indication that the item is in a real or virtual shopping cart associated with the customer. According to another embodiment, the indication comprises an indication that the customer is accessing information about the item. Other indications that a customer may be interested in purchasing an item may  
30 include, for example, the merchant device 220 receiving: information stored at the customer device 210, an indication from an input device associated with the customer,



an indication that the customer is viewing information about the item, an indication that the customer has viewed information about the item for a predetermined period of time, an indication that the customer is providing payment for the item (*e.g.*, using his or her credit card), a search term (*e.g.*, submitted to an Internet search engine), a price request,  
5 an indication that the customer is no longer interested in purchasing the item, an indication that the customer is not going to purchase the item at an original price, an indication that the customer is interested in purchasing another item (*e.g.*, an item associated with a competing manufacturer), an indication that the customer is purchasing the item from another merchant, a bid for the item, an offer to purchase the  
10 item (*e.g.*, including a customer defined price for the item), and/or an indication that another customer is also interested in purchasing the item (*e.g.*, the other customer has submitted a higher bid for the item via an auction Web site).

Based on the customer's promise to perform the task in the future, the merchant device 220 applies the benefit to the transaction. For example, the merchant device 220  
15 may reduce a retail price associated with the item by \$10.

The "task" to be performed by the customer in the future may comprise, for example, applying for a service and/or subscribing to a service, such as a telephone service (*e.g.*, a long distance telephone service, an Internet service, a banking service, a credit card account service, an insurance service, a securities trading service, a satellite  
20 television service, and/or a cable television service). For example, the task may comprise applying for a new credit card. In this case, a credit card company may provide, for example, a payment of \$20 to the merchant in exchange for a new potential customer. According to other embodiments, the task may comprise purchasing a supplemental or substitute item, exchanging an item (*e.g.*, providing a used computer to  
25 a computer dealer), visiting a merchant, receiving information (*e.g.*, a telemarketing presentation), dialing a telephone number, accessing a Web page, and/or providing information (*e.g.*, answering one or more survey or focus group questions).

According to one embodiment of the present invention, all customers are required to perform the same predetermined task. According to another embodiment,  
30 the task to be performed by the customer is determined (*e.g.*, by the merchant device 220 or the subsidy provider device 230). The task may be based on, for example,

information associated with the transaction (*e.g.*, the task may be based on a month associated with the transaction). The task may also be based on information associated with the customer, such as whether the customer falls within a predetermined demographic profile. The task may also be based on information associated with the benefit being applied or information associated with an item purchased by the customer. For example, the task may be based on an item price or an item category. The task may also be based on information associated with the merchant or the subsidy provider. According to another embodiment of the present invention, a customer may use his or her customer device 210 to request a particular task to be performed.

According to the present invention, the merchant device 200 also arranges for the customer to provide a security deposit. As used herein, a “security deposit” may be anything provided by a customer to secure the benefit being applied to the transaction. For example, the security deposit may be a payment provided by the customer (including a payment of an alternate currency, such as frequent flier miles).

According to another embodiment, the security deposit is an item owned by the customer (or an interest in an item). For example, a customer may leave with the merchant an item (*e.g.*, the item that he or she is purchasing). Similarly, a customer can be allowed to take possession of the item, but the item may not function (or may only partially function) until the customer performs the task. For example, a digital television may not have certain features (*e.g.*, surround sound) until it receives a predetermined signal (*e.g.*, a signal that is not transmitted to the television until the subsidy provider verifies that the customer has performed the task). Similarly, a merchant may transmit an encoded information file (*e.g.*, a software program) to the customer but information required to decode the information file (*e.g.*, a “key” or code that unlocks a software program) may only be provided after the customer has performed the task.

According to still another embodiment, the security deposit is a reduction of an amount of credit available to the customer (*e.g.*, available via a credit card account associated with the customer). Some methods associated with an amount of credit available to a customer are described, for example, in U.S. Patent Application Serial No. 08/932,984 entitled “System and Method for Issuing Security Deposit Guarantees

Based on Credit Card Accounts” and filed September 18, 1997. The security deposit may also comprise a right the customer has to receive a payment (*e.g.*, a tax refund or a payment the customer is to receive in exchange for having performed work in the past). According to another embodiment, the security deposit comprises a lien on an item  
5 (*e.g.*, the item being purchasing in the transaction).

According to one embodiment, the merchant device 220 arranges for the customer to provide the security deposit via a payment identifier associated with the customer. For example, the customer may provide the security deposit via a credit card account, a debit card account, a checking account, and/or an electronic payment  
10 protocol. According to another embodiment, someone other than the customer provides the security deposit (*e.g.*, the security deposit may be provided by a friend or family member).

The merchant device 220 may also determine an amount associated with the security deposit. This amount may be based on, for example, information associated  
15 with the transaction or information associated with the customer. For example, a customer who has failed to perform a task in the past may be required to provide an increased security deposit amount. The amount may also be based on, for example, demographic information, psychographic information, an address, and/or a credit rating associated with the customer. According to one embodiment, the customer indicates an  
20 amount or type of security deposit he or she would like to provide (*e.g.*, by selecting the type of security deposit from a list of appropriate types). According to one embodiment, the benefit to be applied to the transaction may be adjusted if the customer requests a particular security deposit amount.

The amount of the security deposit may also be based on the task or the benefit  
25 being applied to the transaction. For example, the security deposit may always be equal to the benefit applied to the transaction. The amount may also be based on the item being purchased by the customer (*e.g.*, an item price and/or an item category) or the merchant involved in the transaction. According to another embodiment, the amount is based on information associated with the subsidy provider (*e.g.*, a customer acquisition  
30 rate).

Based on the performance of the task by the customer, it is arranged for the security deposit to be returned or released to the customer. For example, the subsidy provider device 230 may determine that the customer has performed the task. In this case, the subsidy provider device 230 or the merchant device 220 may arrange for the security deposit payment to be returned to the customer (*e.g.*, via a payment identifier). According to one embodiment, the performance of the task by the customer is evaluated, and the amount returned to the customer may be adjusted based on the evaluation.

FIG. 2B illustrates a transaction system 250 according to another embodiment of the present invention. In this case, a controller 500 facilitates transactions involving one or more customer devices 210, one or more merchant devices 220, and/or one or more subsidy provider devices 230. For example, the controller 500 may receive an indication that a customer is interested in purchasing an item from a merchant. Based on the received indication, the controller 500 transmits an offer to the customer device 210. The offer is to apply a benefit (provided by a subsidy provider via a benefit provider device 240) to the transaction in exchange for a future performance of a task by the customer.

A payment identifier is provided to the controller 500, and it is arranged for the customer to provide payment of a security deposit via the payment device 270. According to one embodiment, an escrow service device 260 may be used to hold the security deposit until the customer performs the appropriate task.

The performance of the task by the customer is verified, and the security deposit is returned to the customer based on the performance of the task. According to one embodiment, the payment device 270 (*e.g.*, a credit card processing device) is used to return the security deposit to the customer.

According to another embodiment, the security deposit is "returned" to the customer by, for example, destroying a check signed by the customer or by destroying a Record Of Credit (ROC) associated with the customer's credit card account.

The operation of the transaction systems 200, 250 will now be described in more detail with respect to several transaction examples.

### Transaction Examples

Alice visits a MACY'S® store and selects a shirt having a retail price of \$100 to  
5 purchase. She brings the shirt to a POS terminal that is in communication with a  
merchant device 220. An employees of MACY'S® scans a Universal Product  
Category (UPC) code attached to the shirt, causing the POS terminal to display the  
following offer to Alice: "You can purchase this shirt for \$60 if you promise to test  
drive a new FORD® automobile within the next thirty days!" Alice indicates to the  
10 employee that she accepts this offer, and gives the employee her credit card.

The merchant device 220 uses Alice's credit card number to arrange for her to  
provide payment of \$60 in exchange for the shirt. In addition, the merchant device 220  
arranges for Alice to provide payment of a \$40 security deposit. The sales receipt given  
to Alice includes directions to a nearby FORD® dealership along with a transaction  
15 code (e.g., an alphanumeric code associated with the transaction).

Alice visits the FORD® dealership the next day and test drives a new  
automobile. She gives her sales receipt to an employee of the dealership. The  
employee uses a telephone (e.g., a subsidy provider device 230) to transmit the  
transaction code to the merchant device 220. The merchant device 220 verifies the  
20 transaction code and arranges for the \$40 security deposit to be returned to Alice (e.g.,  
via her credit card number). The FORD® dealership then arranges to provide payment  
of \$50 to MACY'S® in exchange for acquiring the potential new customer.

According to another example, Bob accesses a Web site associated with an  
online merchant. He indicates that a particular model television having a retail price of  
25 \$300 should be placed into his virtual shopping cart and receives the following  
message: "You can receive this television for only fifty percent of the retail price if you  
agree to subscribe to a cable television service for the next two years!"

Bob agrees and provides a payment of \$150 to the online merchant. The online  
merchant also transfers a \$150 security deposit from Bob's credit card account to the  
30 cable television company and transmits a transaction code to both Bob's PC and the  
cable television company.

Bob then accesses a Web site associated with the cable television company. The transaction code stored on Bob's PC is transmitted to the cable television company, which compares the code with the one received from the online merchant. After verifying that the codes match, the cable television company sells Bob a two year  
5 subscription to the cable television service and returns the \$150 security deposit to Bob. Note that the security deposit does not need to equal the value of benefit that was applied to the transaction. For example, the online merchant could have instead transferred a \$160 security deposit from Bob's credit card account.

According to another example, Carol visits a MOBIL® service station and  
10 begins to fill her automobile with gasoline. While doing so, the gasoline pump displays the following offer to Carol: "Agree to purchase the next two issues of SPORTS ILLUSTRATED® with your MOBIL® card and pay only \$0.50 per gallon this visit!" Carol presses a button on the gasoline pump to indicate that she accepts this offer. When Carol swipes her credit card at the gasoline pump, she is only charged \$0.50 per  
15 gallon for the gasoline. In addition, a credit limit associated with her credit card is reduced by \$10 as a security deposit.

Carol, however, fails to purchase any issues of SPORTS ILLUSTRATED® with her MOBIL® card. In this case, MOBIL® may arrange for her to provide a penalty payment of \$10 (*e.g.*, in effect "not returning" her reduced credit limit).

20 Transaction timelines according to several embodiments of the present invention will now be described with respect to FIGS. 3A through 3E.

#### Transaction Timelines

25 FIG. 3A illustrates a transaction timeline according to one embodiment of the present invention. At the beginning of the transaction timeline, or "T = 0," A customer provides a security deposit to the merchant. After receiving the security deposit, the merchant provides a benefit to the customer at T = 1 (*e.g.*, by applying a subsidy amount to a transaction). The merchant also provides a transaction code, such as a  
30 "rebate certificate," to the customer at T = 2. The rebate certificate may be, for example, a printed voucher containing instructions to be followed by the customer.

The customer performs a task for a subsidy provider at  $T = 3$ , and provides the rebate certificate to the subsidy provider at  $T = 4$ . Because the customer has performed the task, the subsidy provider signs the rebate certificate and returns it to the customer at  $T = 5$ . According to another embodiment of the present invention, the subsidy  
5 provider may instead provide the rebate certificate directly to the merchant at  $T = 5$ .

The customer provides the signed rebate certificate to the merchant at  $T = 6$  to indicate that he or she has performed the task. The merchant then returns the security deposit to the customer at  $T = 7$ .

Note that the present invention does not require the use of a printed and/or  
10 signed rebate certificate. For example, the merchant may instead transmit a transaction code to a customer device at  $T = 2$ , and the subsidy provider may read the transaction code from the customer device at  $T = 4$ . Similarly, the subsidy provider may transmit information to a customer device (or a merchant device) at  $T = 5$  or  $T = 6$  to indicate that the customer has performed the task and therefore the security deposit should be  
15 returned to the customer.

Note that, in addition to the events shown in FIG. 3A, the subsidy provider may provide a payment to the merchant in exchange for the customer's performance of the task. Such a payment may be made, for example, in advance (e.g., before any customer performs the task) or on a customer-by-customer basis as each customer performs the  
20 task. According to another embodiment, the subsidy provider returns the security deposit to the customer at  $T = 5$ , making the events described with respect to  $T = 6$  and  $T = 7$  not necessary. In this case, the merchant may simply keep the security deposit it received from the customer to offset the benefit that was provided to the customer at  $T = 1$ .

FIG. 3B illustrates a transaction timeline according to another embodiment of the present invention. At  $T = 0$ , a customer provides a security deposit to the merchant. The merchant then transfers the security deposit to a subsidy provider at  $T = 1$ , and provides a benefit to the customer along with a rebate certificate at  $T = 2$  and  $T = 3$ .

The customer performs a task for a subsidy provider at  $T = 4$ , and provides the  
30 rebate certificate to the subsidy provider at  $T = 5$ . Because the customer has performed the task, the subsidy provider returns the security deposit at  $T = 6$ . In this case, the

subsidy provider may also provide a payment to the merchant. Such a payment may, for example, be based on the benefit provided by the merchant at  $T = 2$  (e.g., the payment may equal the value of the benefit plus a commission of \$5).

FIG. 3C illustrates a transaction timeline according to still another embodiment of the present invention.

At  $T = 0$ , a customer provides a security deposit to the merchant. After receiving the security deposit, a benefit provider provides a benefit to the customer at  $T = 1$  (e.g., by awarding frequent flier miles to the customer). The merchant provides a rebate certificate to the customer at  $T = 2$ .

The customer performs a task for a subsidy provider at  $T = 3$ , and provides the rebate certificate to the subsidy provider at  $T = 4$ . Because the customer has performed the task, the subsidy provider signs the rebate certificate and returns it to the customer at  $T = 5$ . At  $T = 6$ , the customer provides the signed rebate certificate to the merchant to indicate that he or she has performed the task. The merchant then returns the security deposit to the customer at  $T = 7$ .

FIG. 3D illustrates a transaction timeline according to still another embodiment of the present invention. At  $T = 0$ , a customer provides a security deposit to the merchant. The merchant then transfers the security deposit to a subsidy provider at  $T = 1$ , and a benefit provider provides a benefit to the customer at  $T = 2$ . In addition, the merchant provides a rebate certificate to the customer at  $T = 3$ .

The customer performs a task for a subsidy provider at  $T = 4$ , and provides the rebate certificate to the subsidy provider at  $T = 5$ . Because the customer has performed the task, the subsidy provider returns the security deposit at  $T = 6$ .

FIG. 3E illustrates a transaction timeline according to still another embodiment of the present invention. At  $T = 0$ , a customer provides a security deposit to an escrow service (e.g., a credit card company or a bank), and the merchant provides a benefit to the customer along with a rebate certificate at  $T = 1$  and  $T = 2$ .

The customer performs a task for a subsidy provider at  $T = 3$ , and provides the rebate certificate to the subsidy provider at  $T = 4$ . Because the customer has performed the task, the subsidy provider transmits a rebate code to the escrow service at  $T = 5$ .



Based on the received rebate code, the escrow service returns the security deposit to the customer at  $T = 6$ .

Transaction flows according to several embodiments of the present invention will now be described with respect to FIGS. 4A through 4E.

5

#### Transaction Flows

FIG. 4A illustrates a transaction flow according to one embodiment of the present invention. At (a), a customer 410 receives a benefit from a merchant 420. For example, the merchant 420 may apply a subsidy amount to a transaction associated with the customer 410. The customer 410 provides a security deposit to the merchant 420 at (b). For example, the customer 410 may provide payment of an amount associated with the benefit. As another example, the customer 410 may agree to leave with the merchant 420 one or more items he or she is purchasing.

15 At (c), the merchant 420 provides a rebate certificate to the customer 410. According to one embodiment, the rebate certificate is a transaction code transmitted to the customer's PDA. The transaction code may be, for example, a verifiable "hash" value generated when transaction information is used with a hash function, such as a one-way hash function. A hash function is a transformation that takes input  
20 information and returns a hash value. In general, one can think of a hash value as a "digital fingerprint" of the input information. For example, the input information to the hash function may be an item identifier, a customer's name and address, and information about a task (*e.g.*, a task identifier). In this case, the hash function would generate the transaction code based on the input information. The merchant 420 (or a  
25 subsidy provider 430) could then validate the transaction code using another function. Applicable hash functions and other encryption techniques are described in Bruce Schneier, "Applied Cryptography: Protocols, Algorithms, and Source Code in C" (John Wiley & Sons, Inc., 2nd Ed. 1996).

According to another embodiment, the rebate certificate is a representation  
30 stored using the customer's PC, such as by storing the representation as a "cookie." A cookie may be a block of data that a Web server (*e.g.*, associated with the merchant

420) stores on a client system (*e.g.*, the customer's PC). When a customer 410 accesses the same Web site, or an associated Web site (*e.g.*, a Web site associated with a subsidy provider 430), the browser of the customer's PC sends a copy of the cookie back to the Web server. Cookies may be used to identify customers associated with a PC, to  
5 instruct a Web server to send a customized version of a Web page, to track benefits, tasks, and security deposits associated with a customer and/or a transaction, and for other purposes.

According to another embodiment, the rebate certificate comprises a transaction code generated by the customer 410. For example, the customer 410 may supply a  
10 transaction password to the merchant 420, which then forwards the transaction password to the subsidy provider 430. When the customer 410 visits the subsidy provider 430 to perform a task, the subsidy provider 430 may ask the customer 410 for his or her transaction password. The subsidy provider 430 may then validate the transaction password received from the customer 410 by comparing it to a list of  
15 transaction passwords previously received from the merchant 420.

At (d), the customer 410 performs a task for the subsidy provider 430. At (e), the customer 410 provides the rebate certificate to the subsidy provider 430, who signs and returns the rebate certificate to the customer 410 at (f). The subsidy provider 430 also provides a payment to the merchant 420 at (g). For example, the subsidy provider  
20 430 may provide payment of an amount associated with the benefit. In this way, the subsidy provider 430 may fund the benefit applied to the customer's transaction. According to one embodiment, the payment provided at (g) is provided before the merchant 420 applies the benefit applied to the customer's transaction.

The customer 410 gives the signed rebate certificate to the merchant 420 at (h).  
25 Based on the signed rebate certificate, the merchant 420 returns the security deposit to the customer 410 at (i).

FIG. 4B illustrates a transaction flow according to another embodiment of the present invention. At (a), a customer 410 provides a security deposit to a merchant 420. At (b), the customer 410 receives a benefit from the merchant 420. For example, the  
30 merchant 420 may apply a subsidy amount to a transaction associated with the

customer 410. The merchant 420 also provides a rebate certificate to the customer 410 at (c) and forwards the security deposit to a subsidy provider 430 at (d).

At (e), the customer 410 provides the rebate certificate to the subsidy provider 430 and performs a task for a subsidy provider 430 at (f). Based on the performance of the task, the subsidy provider then returns the security deposit to the customer at (g).

FIG. 4C illustrates a transaction flow according to still another embodiment of the present invention. At (a), a customer 410 provides a security deposit to a merchant 420. The customer 410 then receives a rebate certificate from the merchant 420 at (b).

At (c), the customer 410 receives a benefit from a benefit provider 440. For example, the benefit provider 440 may provide the customer 410 with frequent flier miles.

At (d), the customer 410 performs a task for a subsidy provider 430. At (e), the customer 410 provides the rebate certificate to the subsidy provider 430, who in turn transmits a rebate code to the merchant 420 at (f) to indicate the customer has performed the task as promised. In addition to the rebate code, the subsidy provider 430 may provide a first payment to the merchant 420 at (g).

Based on the received rebate code, the merchant 420 returns the security deposit to the customer 410 at (h). In addition, the merchant 420 may provide a second payment to the benefit provider 440 at (i). The second payment may or may not be based on the first payment made from the subsidy provider 430 to the merchant 420 at (g).

FIG. 4D illustrates a transaction flow according to still another embodiment of the present invention. At (a), a customer 410 receives a benefit from a benefit provider 440. For example, the benefit provider 440 may provide the customer 410 with frequent flier miles. At (b), the customer 410 provides a security deposit to a merchant 420. Note that in this case, the customer 410 receives the benefit before providing the security deposit. The customer 410 then receives a rebate certificate from the merchant 420 at (c). At (d), the merchant 420 forwards the security deposit to a subsidy provider 430.

The customer provides the rebate certificate to the subsidy provider 430 and performs the task at (e) and (f). After the customer has performed the task, the subsidy

provider 430 returns the security deposit to the customer 410 at (g). In addition, the subsidy provider 430 provides a first payment to the merchant 420 at (h). The merchant 420 in turn may provide a second payment to the benefit provider 440 at (i). The second payment may or may not be based on the first payment made from the subsidy provider 430 to the merchant 420 at (h).

FIG. 4E illustrates a transaction flow according to still another embodiment of the present invention. At (a), a customer 410 receives a benefit from a merchant 420. For example, the merchant 420 may arrange for an item to be provided to a customer for free in exchange for the customer's promise to perform a task in the future. At (b), the customer 410 provides a security deposit to an escrow service 460. The escrow service 460 may be, for example, a bank, a credit card company, or any other trusted third party.

At (c), the customer 410 receives a rebate certificate from the merchant 420. The customer 410 then provides the rebate certificate to a subsidy provider 430 at (d) and performs the task at (e).

When the customer 410 has performed the task, the subsidy provider 430 provides a payment to the merchant 420 at (f) and transmits a rebate code to the escrow service at (g). The rebate code may be, for example, a verifiable hash value generated by the subsidy provider 430. According to another embodiment, the rebate code may simply be the rebate certificate.

The escrow service 460 may then verify the rebate code and return the security deposit to the customer 41 at (h). According to still another embodiment, the customer 410 may receive the rebate certificate from and/or provide the rebate certificate to the escrow service 460 instead of the merchant 420 and/or the subsidy provider 430.

#### Controller

FIG. 5 illustrates a controller 500 that is descriptive of the device shown in FIG. 2B according to one embodiment of the present invention. The controller 500 comprises a processor 510, such as one or more INTEL® Pentium® processors, coupled to a communication device 520 configured to communicate through a

communication network (not shown in FIG. 5). Note that the controller 500 may comprise a single computer, a network, or any other device capable of performing the functions described herein. The communication device 520 may be used to communicate, for example, with one or more customer devices 310, merchant devices 220, subsidy provider devices 230, benefit provider devices 240, escrow service devices 260, and/or payment devices 270.

The processor 510 is also in communication with a storage device 530. The storage device 530 may comprise any appropriate storage device, including combinations of magnetic storage devices (*e.g.*, magnetic tape and hard disk drives), optical storage devices and semiconductor memory devices, such as Random Access Memory (RAM) devices and Read Only Memory (ROM) devices.

The storage device 530 stores a program 515 for controlling the processor 510. The processor 510 performs instructions of the program 515, and thereby operates in accordance with the present invention. For example, the processor 510 may arrange for a benefit to be applied to a transaction in exchange for a future performance of a task by a customer, arrange for the customer to provide a security deposit, and arrange for the security deposit to be returned to the customer based on the performance of the task.

The program 515 may be stored in a compressed, uncompiled and/or encrypted format. The program 515 furthermore includes program elements that may be necessary, such as an operating system, a database management system, and "device drivers" used by the processor 510 to interface with peripheral devices. Appropriate program elements are known to those skilled in the art.

Note that the processor 510 and the storage device 530 may be, for example, located entirely within a single computer or other computing device or located in separate devices coupled through a communication channel. In one embodiment, the controller 500 comprises one or more computers that are connected to a remote database server.

As used herein, information may be "received" by or "transmitted" to, for example, (i) the controller 500 from any other device, or (ii) a software application or module within the controller 500 from another software application, module, or any other source (*e.g.*, including another source within the controller 500).

As shown in FIG. 5, the storage device 530 also stores a customer database 600 (described with respect to FIG. 6), a task database 700 (described with respect to FIG. 7), a rebate certificate database 800 (described with respect to FIG. 8), and a rebate code database 900 (described with respect to FIG. 9). Examples of databases that may be used in connection with the transaction system 500 will now be described in detail with respect to FIGS. 6 through 9. Each figure depicts a database in which the data is organized according to a data structure in accordance with embodiments of the present invention. The data may be stored, for example, on a computer readable medium and be accessible by a program executed on a data processing system. The schematic illustrations and accompanying descriptions of the databases presented herein are exemplary, and any number of other database arrangements could be employed besides those suggested by the figures.

#### Customer Database

Referring to FIG. 6, a table represents one embodiment of the customer database 600 that may be stored at the controller 500 shown in FIGS. 2B and 5 according to an embodiment of the present invention. The table includes entries identifying customers that may purchase products via the controller 500. The table also defines fields 602, 604, 606, 608 for each of the entries. The fields specify a customer identifier 602, a name 604, contact information 606, and a payment identifier 608.

The customer identifier 602 may be, for example, an alphanumeric code associated with a customer who may purchase a product via the controller 500. The customer identifier 602 may be, for example, generated by the controller 500 when a customer registers to use the controller 500 or may be created by the customer (*e.g.*, when the customer creates a user name and password).

The name 604 and contact information 606 may represent the customer's name and contact information (*e.g.*, a mailing address, an electronic mail address, and/or a telephone number), respectively, and may be based on information received from the customer device 210 when the customer registers to use the controller 500 or when the customer submits offer information (*e.g.*, an offer to purchase an item or an offer to

perform a task). The contact information 606 may be used, for example, to communicate with a customer device 210 when offer information is evaluated by the controller 500 (e.g., to arrange for the customer to purchase a product or to remind a customer that a task should be performed). For example, the controller 500 may send a customer the following electronic mail message: "Don't forget, you promised to visit BURGER KING® by the end of this month!"

The payment identifier 608 may be, for example, a credit card number, a debit card number, a checking account number, or digital payment protocol information that can be used to receive payment from the customer (e.g., to receive payment of an reduced price in exchange for a product). The payment identifier 608 may also, according to some embodiments of the present invention, be used to receive a security deposit from the customer. The payment identifier 608 may be based on, for example, information received from the customer device 210 when the customer registers to use the controller 500 or when the customer purchases an item.

#### Task Database

Referring to FIG. 7, a table represents one embodiment of the task database 700 that may be stored at the controller 500 shown in FIGS. 2B and 5 according to an embodiment of the present invention. The table includes entries identifying tasks that a customer may promise to perform in exchange for a benefit. The table also defines fields 702, 704, 706, 708, 710 for each of the entries. The fields specify a task identifier 702, a description of task 704, a subsidy provider 706, a benefit for performing task 708, and a security deposit 710.

The task identifier 702 may be, for example, an alphanumeric code associated with a task that may be performed by a customer. The task identifier 702 may be, for example, generated by the controller 500 when a subsidy provider arranges to have benefits provided to customers via the controller 500.

The description of task 704 may indicate, for example, one or more tasks that a customer must promise to perform in order to receive a benefit. The description of task 704 may include, for example, text, audio, and/or image information. According to one

embodiment of the present invention, the description of task 704 is transmitted to a customer when an offer is provided (*e.g.*, via a POS terminal or via a Web site).

The subsidy provider 706 may indicate, for example, the party that funds the benefit being provided to the customer. For example, the subsidy provider 706 may  
5 provide one or more payments to a merchant, who in turns applies benefits to customer transactions. According to one embodiment of the present invention, the subsidy provider 706 indicates the party on whose behalf the customer will perform the task.

The benefit for performing task 708 indicates the benefit the customer will receive in exchange for promising to perform the task in the future. The benefit for  
10 performing task 708 may include, for example, text, audio, and/or image information. According to one embodiment of the present invention, the benefit for performing task 708 is transmitted to a customer a when an offer is provided (*e.g.*, via a POS terminal or via a Web site).

The security deposit 710 indicates what the customer must provide to secure the  
15 benefit he or she receives in exchange for a promise to perform the task in the future. The security deposit 710 may comprise, for example, a fixed monetary value, a variable monetary value, and/or an alternate currency (*e.g.*, "tokens" or coupons that may be used in other transactions by the customer).

20       Rebate Certificate Database

Referring to FIG. 8, a table represents one embodiment of the rebate certificate database 800 that may be stored at the controller 500 shown in FIGS. 2B and 5 according to an embodiment of the present invention. The table includes entries  
25 identifying rebate certificates that have been issued by the controller 500. The table also defines fields 802, 804, 806, 808, 810 for each of the entries. The fields specify a rebate certificate identifier 802, a customer identifier 804, a task identifier 806, a task deadline 808, and a task status 810.

The rebate certificate identifier 802 may be, for example, an alphanumeric code  
30 associated with a rebate certificate that has been issued by the controller 500 (*e.g.*, when a customer has received a benefit and provided a security deposit). The customer



identifier 804 indicates a customer who has purchased a product via the controller 500, and may or may not be associated with the customer identifier 602 stored in the customer database 600.

The task identifier 806 indicates the task to be performed by the customer with respect to a transaction, and may or may not be associated with the task identifier 702 stored in the task database 700. The task deadline 808 may indicate, for example, a time and/or date by which a customer must perform a task in order to have his or her security deposit returned. The task status 810 may indicate, for example, if a customer has not yet performed a task (*e.g.*, “pending”), if a customer has performed a task (*e.g.*, “complete”), or if a customer has failed to perform a task by the task deadline 808 (*e.g.*, “overdue”). The task status 810 may be used, for example, by the controller 500 to determine when a security deposit should be returned to a customer (*e.g.*, when the task status 810 indicates “complete”).

#### 15      Rebate Code Database

Referring to FIG. 9, a table represents one embodiment of the rebate code database 900 that may be stored at the controller 500 shown in FIGS. 2B and 5 according to an embodiment of the present invention. The table includes entries identifying rebate codes that the controller 500 has received (or may receive in the future) from a subsidy provider. The table also defines fields 902, 904 for each of the entries. The fields specify a rebate code 902 and a subsidy provider 904.

The rebate code 902 may be, for example, an alphanumeric code associated with a security deposit received from a customer. The rebate code 902 may be, for example, generated by the controller 500 when a customer provides the security deposit. According to one embodiment, a rebate code 902 is uniquely generated for each security deposit.

The subsidy provider 904 may indicate the party who has (or will) provide the rebate code 902 to the controller 500. For example, as illustrated by the fourth entry in FIG. 9, the controller expects to receive a rebate code 902 of “CODE-4-031415” from EBAY.COM®. When the controller 500 receives “CODE-4-031415” from

EBAY.COM®, the rebate code 902 and the subsidy provider 904 can be verified, and the appropriate security deposit can be returned to the appropriate customer.

Methods that may be used in connection with the transaction systems 200, 250 according to some embodiments of the present invention will now be described in detail  
5 with respect to FIGS. 10 through 12.

#### Transaction System Methods

FIG. 10 is a flow chart of a transaction method 1000 according to an  
10 embodiment of the present invention. The methods shown in FIGS. 10 through 12 may be performed, for example, by the controller 500, the merchant device 220, and/or any other device or devices (including the other devices disclosed herein). Note that the flow charts discussed herein do not imply a fixed order to the steps, and embodiments of the present invention may be practiced in other orders.

15 At 1002, a request for a benefit is received from a customer. The request may comprise, for example, a customer asking a store employee if an item price can be reduced by a requested amount (*e.g.*, \$5 or 25%). At 1004, a list of tasks that can be performed for the requested benefit is presented to the customer. For example, a monitor at a kiosk may display the following tasks to the customer: “1) test drive an  
20 automobile, 2) fill out ten surveys over the next ten weeks, or 3) refer five friends to the following merchant.” According to another embodiment, a merchant’s employee may instead describe the tasks to the customer.

At 1006, a selection of at least one task is received from the customer. For example, a customer may use an input device at a kiosk (*e.g.*, a touch screen) to select  
25 one of the tasks. Note that a customer who selects more than one task may have an increased benefit applied to his or her transaction.

A security deposit is received from the customer at 1008. For example, a customer’s credit card may be used to receive payment of an amount equal to the benefit requested by the customer.

30 At 1010, a rebate certificate is transmitted to the customer. For example, information may be transmitted to a customer’s PC enabling the PC to create a printed

voucher. According to another embodiment, the rebate certificate comprises information stored, for example, on a customer's PC or PDA. According to still another embodiment, the rebate certificate is a code provided to the customer in a human-recognizable format (e.g., "indicate to the automobile dealership that the test drive is associated with the MACY25-RED promotion").

At 1012, the benefit is provided to the customer. For example, a price associated with an item being purchased by a customer may be reduced (e.g., reduced by 50%, reduced to zero, or reduced to a "cost" of the item to the merchant).

FIG. 11 is a flow chart of a transaction method 1100 according to an embodiment of the present invention. At 1102, a security deposit is received from the customer. At 1104, a benefit is applied to a transaction and a rebate code is transmitted to the customer (e.g., by printing the transaction code on a rebate certificate).

At 1106, a rebate code is received from the customer or from a subsidy provider. The rebate code may be, for example, a verifiable code generated by the subsidy provider after the customer has performed the task. If the rebate code is received from the subsidy provider, the rebate code may simply be the same as the transaction code transmitted at 1104. Based on the received rebate code, the security deposit is returned to the customer at 1106.

FIG. 12 is a flow chart of a transaction method 1200 according to an embodiment of the present invention. At 1202, a rebate certificate identifier and a rebate code are received from a subsidy provider. If the rebate code is not valid at 1204, an "invalid code" message is output at 1206 (and no security deposit is returned to a customer). The rebate code may be validated, for example, by using a hash function or by comparing the rebate code to a list of valid rebate codes (e.g., using the rebate code database 900).

If the rebate code is valid at 1204, customer information and security deposit information are retrieved at 1208 based on the rebate certificate identifier (e.g., by retrieving the information using the customer database 600, the task database 700, and/or the rebate certificate database 800). At 1210, the appropriate amount is then credited to the customer's financial account (e.g., credit card account) to return the security deposit to the customer.

Thus, embodiments of the present invention let a customer immediately receive a benefit in exchange for promising to perform a task in the future. Moreover, the merchant, or other benefit provider, secures the benefit by receiving a security deposit from the customer.

5

#### Additional Embodiments

The following are several additional embodiments which illustrate various aspects of the present invention. These embodiments do not constitute a definition of all possible embodiments, and those skilled in the art will understand that the present invention is applicable to many other embodiments. Further, although the following embodiments are briefly described for clarity, those skilled in the art will understand how to make any changes, if necessary, to the above-described apparatus and methods to accommodate these and other embodiments and applications.

According to one embodiment, a customer may promise that one or more other parties will perform a task. For example, a customer may promise that at least two of his or her friends will access a particular Web site within the next thirty days. In this case, the security deposit may be returned to the customer after the other parties have performed the task. According to another embodiment, a customer may be a member of a customer team or group. In this case, a customer may promise that one or more members (*e.g.*, that all of the members) in his or her group will perform a task in the future. Similarly, a customer may arrange for one or more members to provide a security deposit.

According to another embodiment, a task may be “transferable.” For example, a first customer may agree to test drive a new automobile in exchange for a benefit. If the first customer decides that he or she does not want to test drive the automobile, the first customer can arrange for the one of his or her friends to do so. After the friend test drives the automobile, the security deposit is returned to the first customer.

According to still another embodiment, the task is not fully defined when the benefit is applied to the transaction. For example, a customer may agree to “give up

According to yet another embodiment, a customer promises to perform a series of related tasks (e.g., to purchase one box of CORN FLAKES® each week for the next 5 month) or un-related tasks. In this case, the security deposit may be returned to the customer in installments as he or she performs each of the tasks.

10

15

1           1. A method of facilitating a transaction with between a customer and a  
2    merchant, comprising:  
3            arranging for a benefit to be applied to the transaction in exchange for a future  
4    performance of a task by the customer, the task being associated with a party other than  
5    the merchant;  
6            arranging for the customer to provide a security deposit; and  
7            arranging for the security deposit to be returned to the customer based on the  
8    performance of the task.

3. The method of claim 1, wherein the transaction comprises a sale by the customer of at least one of: (i) an item; (ii) a product; and (iii) a service.

1           4. The method of claim 1, wherein the benefit comprises at least one of: (i) a  
2   reduction in an amount of payment provided by the customer; (ii) a supplemental item  
3   received by the customer, (iii) a substitute item received by the customer, (iv) an  
4   amount of payment received by the customer, (v) a payment of an alternate currency to  
5   the customer, (vi) an improved transaction term, (vii) an improved warranty term, and  
6   (viii) an improved interest rate term.

33

1           6. The method of claim 5, wherein said transmitting is performed in response to  
2     receiving an indication that the customer is interested in purchasing an item.

1           7. The method of claim 1, wherein the security deposit comprises a payment by  
2     the customer.

1           8. The method of claim 1, wherein the security deposit comprises an item  
2     owned by the customer.

1           9. The method of claim 1, wherein the security deposit comprises a reduction of  
2     an amount of credit available to the customer.

1           10. The method of claim 1, wherein the security deposit comprises a payment  
2     of an alternate currency by the customer.

1           11. The method of claim 1, wherein the security deposit comprises an interest a  
2     customer has in an item.

1           12. The method of claim 1, wherein the security deposit comprises a right the  
2     customer has to receive a payment.

1           13. The method of claim 1, wherein said arranging for the customer to provide  
2     the security deposit further comprises:

3           receiving a payment identifier from the customer; and

4           arranging for the customer to provide payment of the security deposit using the  
5     payment identifier.

1           14. The method of claim 13, wherein the payment identifier comprises at least  
2     one of: (i) a credit card number, (ii) a debit card number, (iii) a bank account number,  
3     and (iv) electronic payment protocol information.

1           15. The method of claim 1, wherein said arranging for the customer to provide  
2 the security deposit further comprises:  
3           determining an amount associated with the security deposit.

1           16. The method of claim 15, wherein said determining is based on information  
2 associated with the transaction.

1           17. The method of claim 15, wherein said determining is based on information  
2 associated with the customer.

1           18. The method of claim 17, wherein the information associated with the  
2 customer comprises at least one of: (i) demographic information, (ii) psychographic  
3 information, (iii) an address, (iv) a credit rating, and (v) a transaction history.

1           19. The method of claim 15, wherein said determining is based on information  
2 associated with the task.

1           20. The method of claim 15, wherein said determining is based on information  
2 associated with the benefit.

1           21. The method of claim 15, wherein said determining is based on information  
2 associated with an item purchased by the customer in the transaction.

1           22. The method of claim 21, wherein the information associated with the item  
2 comprises at least one of: (i) an item price, and (ii) an item category.

1           23. The method of claim 15, wherein said determining is based on information  
2 associated with the merchant.





1           32. The method of claim 28, wherein said receiving comprises:  
2           receiving the information associated with the performance of the task from the  
3           customer in a human-recognizable format.

1           33. An apparatus for facilitating a transaction between a customer and a  
2           merchant, comprising:  
3           a processor; and  
4           a storage device coupled to said processor and storing instructions adapted to be  
5           executed by said processor to:  
6                 arrange for a benefit to be applied to the transaction in exchange for a  
7                 future performance of a task by the customer, the task being associated with a  
8                 party other than the merchant;  
9                 arrange for the customer to provide a security deposit; and  
10                arrange the security deposit to be returned to the customer based on the  
11                performance of the task.

1           34. The apparatus of claim 33, further comprising:  
2           a communication device coupled to said processor and adapted to communicate  
3           with at least one of: (i) a customer device, (ii) a controller, (iii) a merchant device, (iv) a  
4           subsidy provider device, (v) a benefit provider device, (vi) an escrow service device,  
5           and (vii) a payment device.

1           35. The apparatus of claim 33, wherein said storage device further stores at  
2           least one of: (i) a customer database, (ii) a task database, (iii) a rebate certificate  
3           database, and (iv) a rebate code database.

1           36. A medium storing instructions adapted to be executed by a processor to  
2           perform a method for facilitating a transaction between a customer and a merchant, said  
3           method comprising:

4           arranging for a benefit to be applied to the transaction in exchange for a future  
5 performance of a task by the customer, the task being associated with a party other than  
6 the merchant;

7           arranging for the customer to provide a security deposit; and

8           arranging for the security deposit to be returned to the customer based on the  
9 performance of the task.

1           37. A computer-implemented method of facilitating a transaction, comprising:  
2           receiving an indication a customer is interested in purchasing an item from a  
3 merchant;

4           based on the received indication, transmitting to the customer an offer to apply a  
5 benefit, provided by a subsidy provider, to the transaction in exchange for a future  
6 performance of a task by the customer;

7           receiving a payment identifier from the customer;

8           arranging for the customer to provide payment of a security deposit using the  
9 payment identifier;

10          verifying the performance of the task by the customer; and

11          arranging for the security deposit to be returned to the customer based on the  
12 performance of the task.

## ABSTRACT

Systems and methods are provided wherein a security deposit is used to facilitate a transaction with a customer. It is arranged for a benefit to be applied to the transaction in exchange for a future performance of a task by the customer. For example, a subsidy provider may offer to apply a subsidy amount to the transaction in exchange for a future performance of the task by the customer. It is also arranged for the customer to provide a security deposit. Based on the performance of the task by the customer, it is arranged for the security deposit to be returned to the customer.

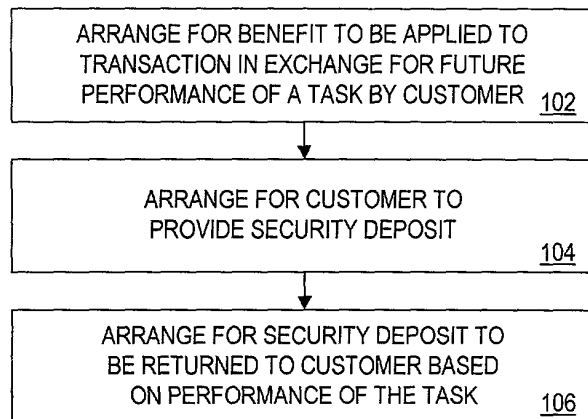


FIG. 1

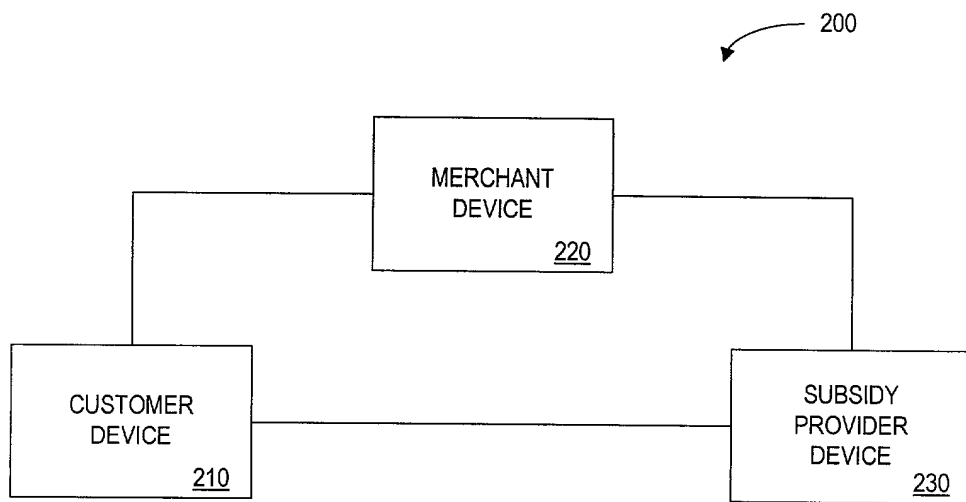


FIG. 2A

FIG. 2B

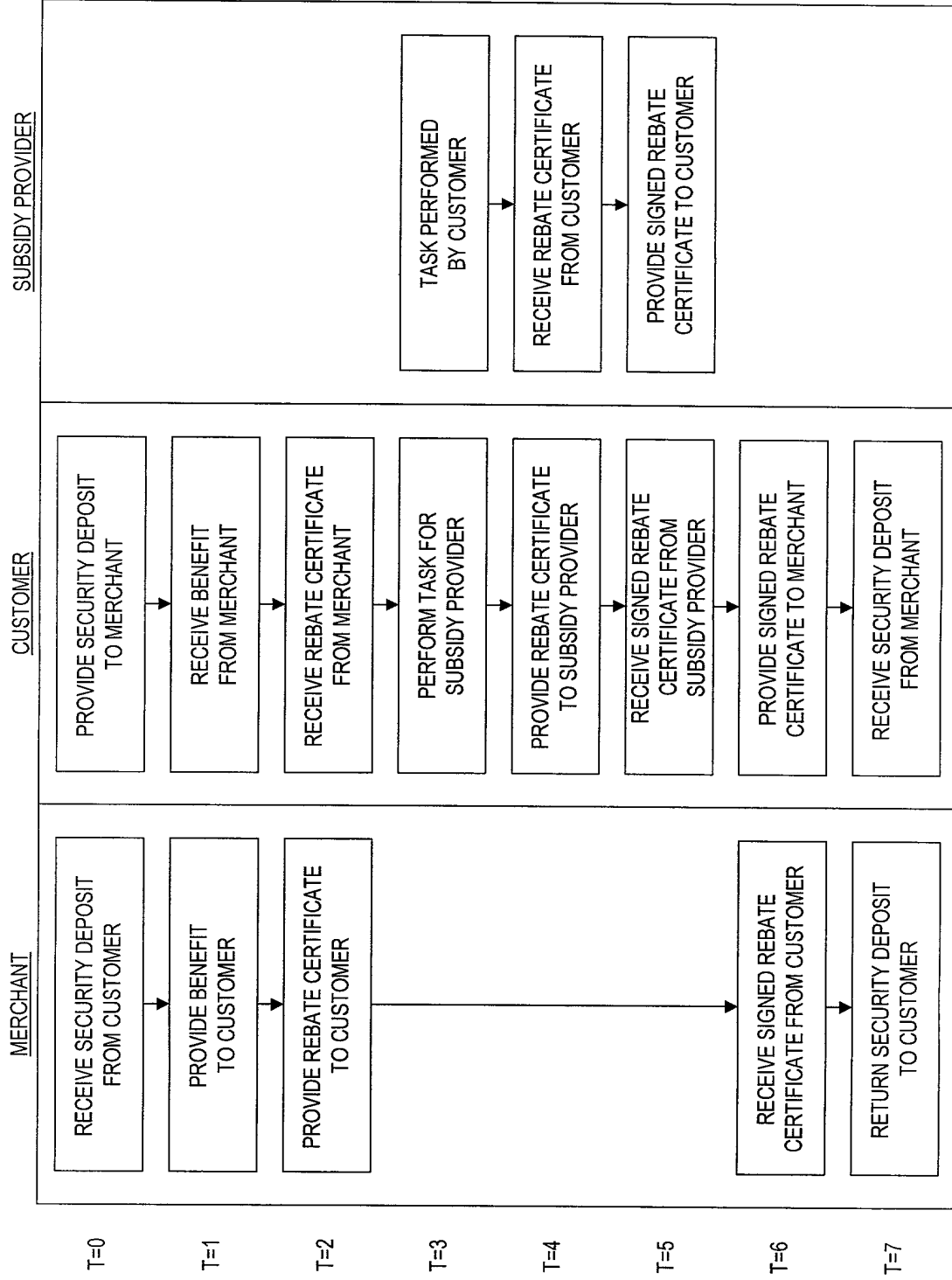


FIG. 3A



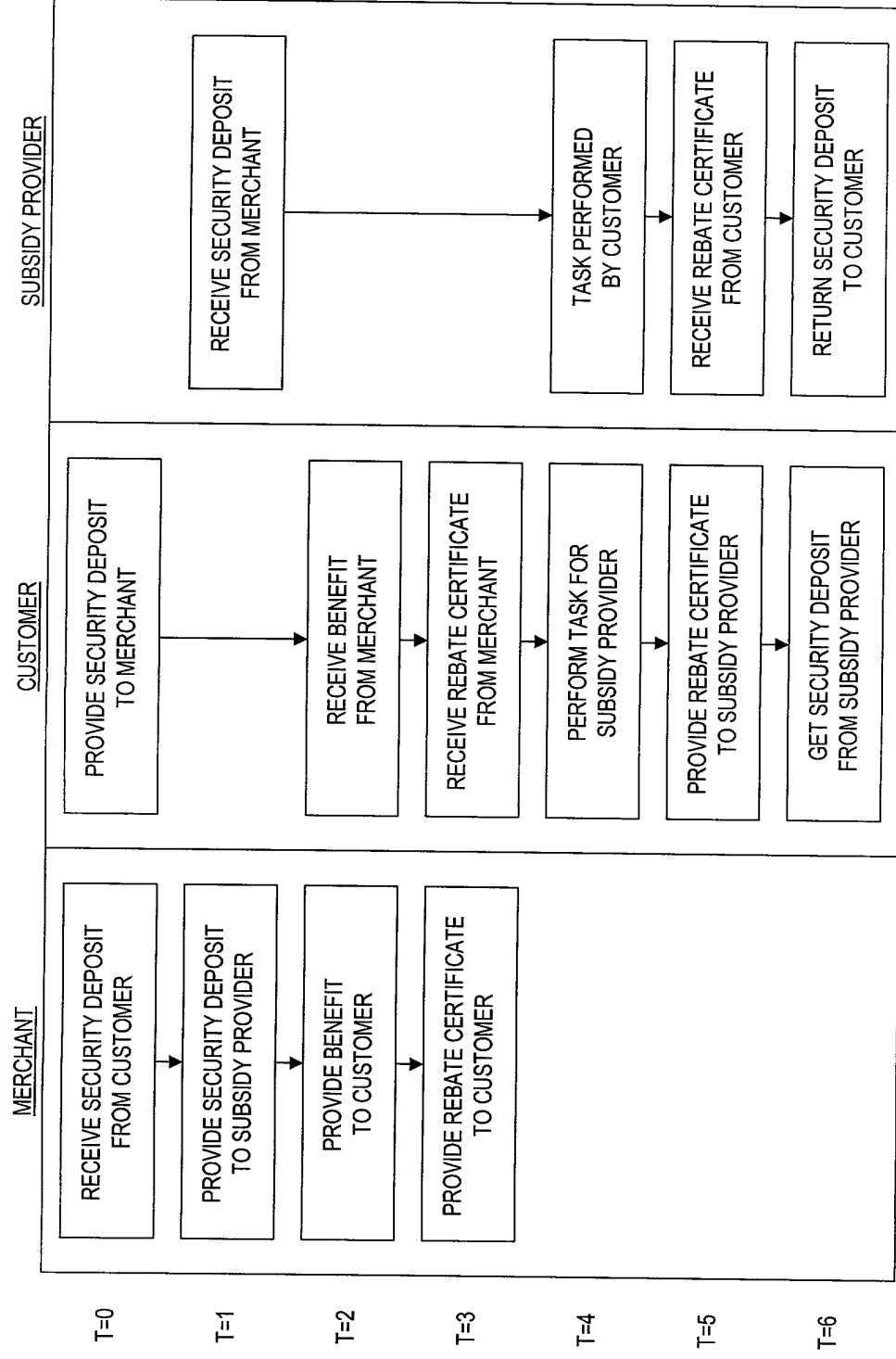


FIG. 3B

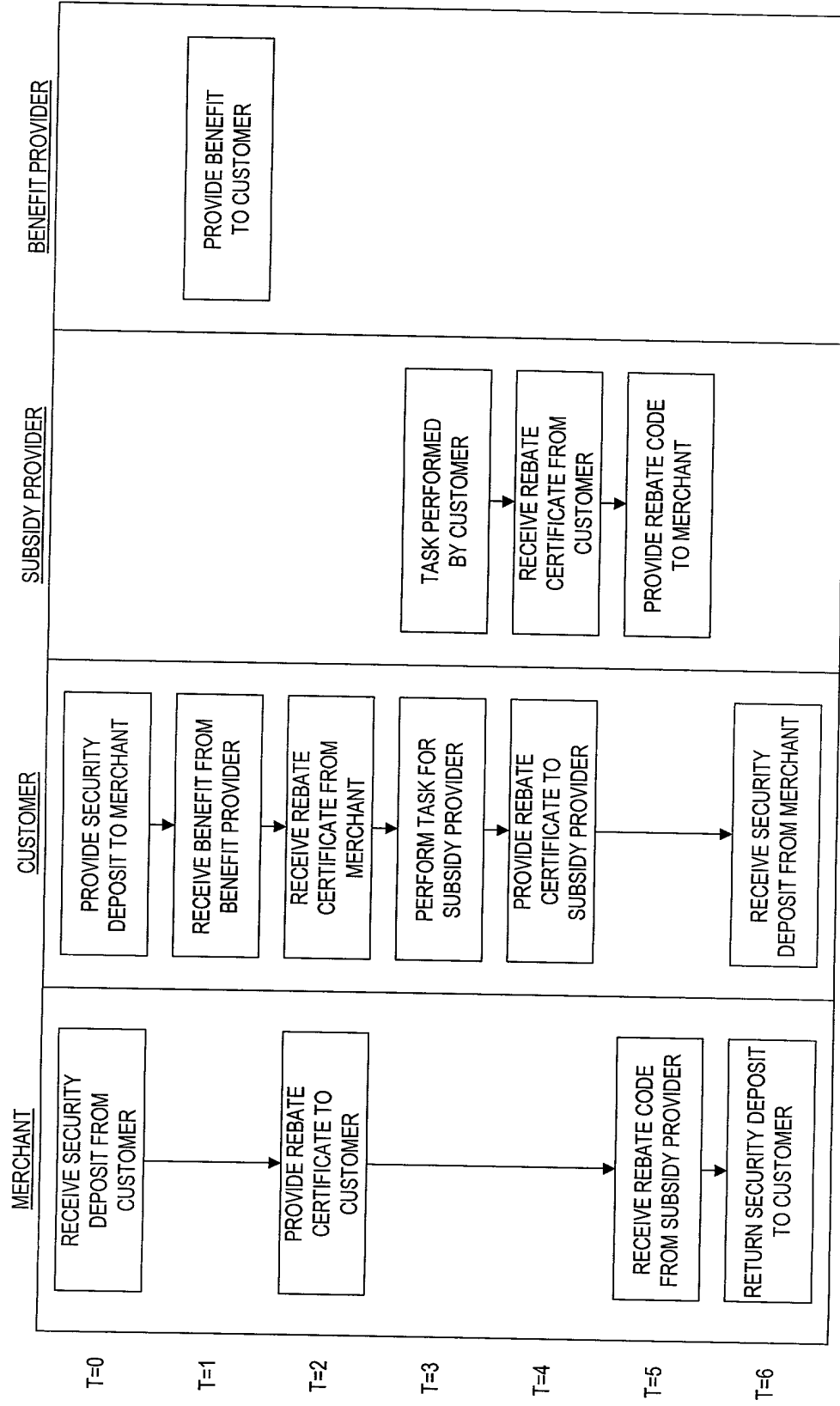


FIG. 3C

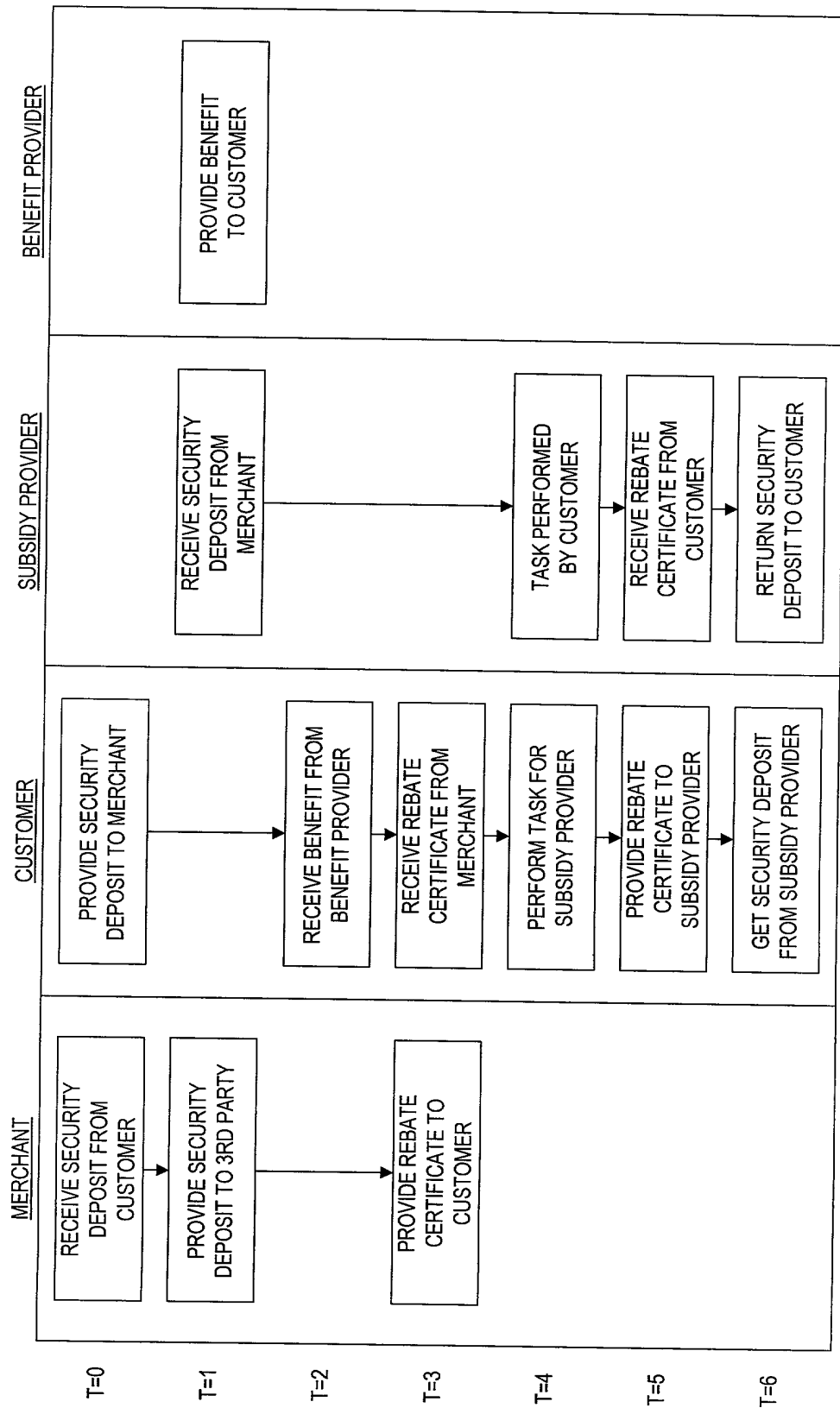


FIG. 3D

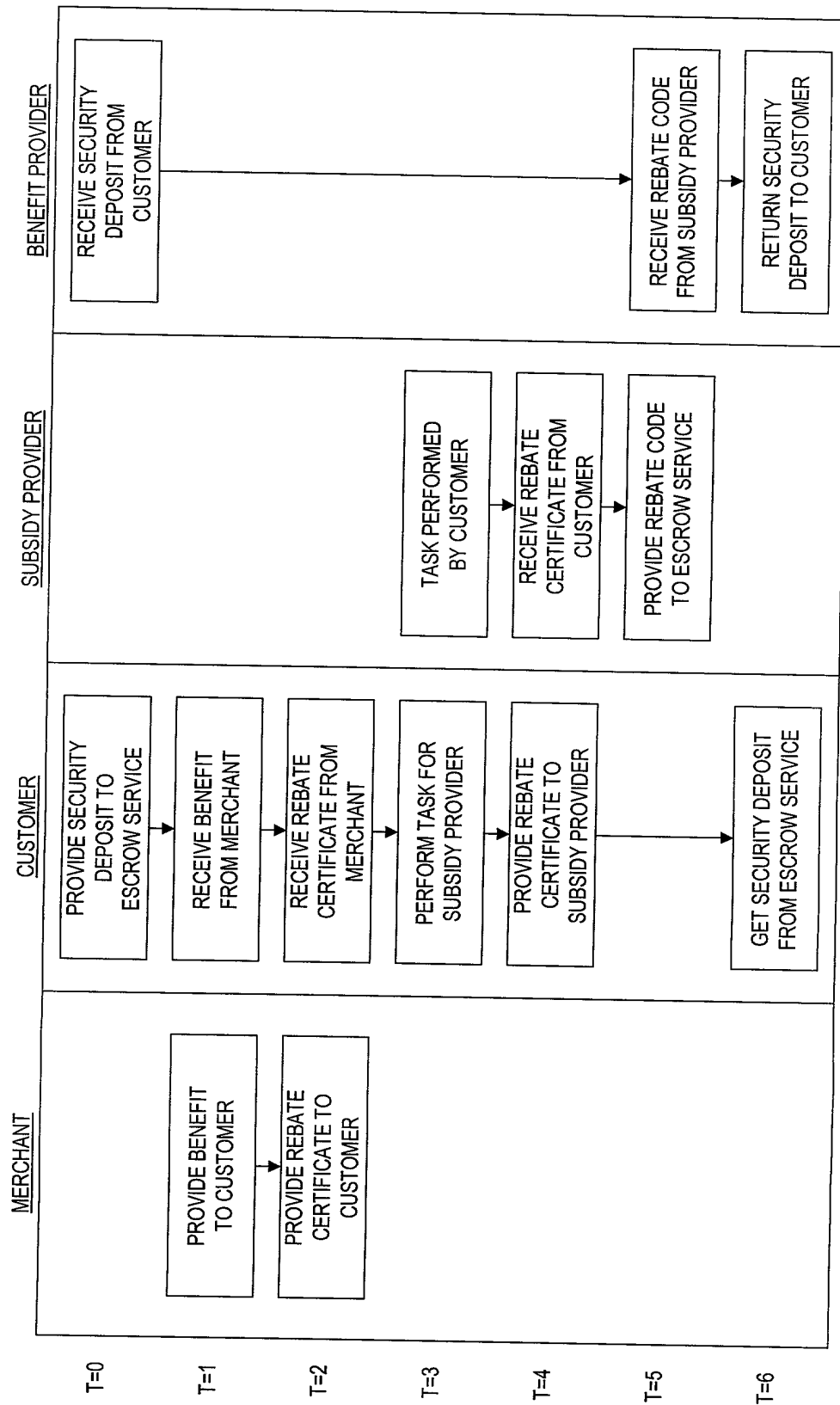


FIG. 3E

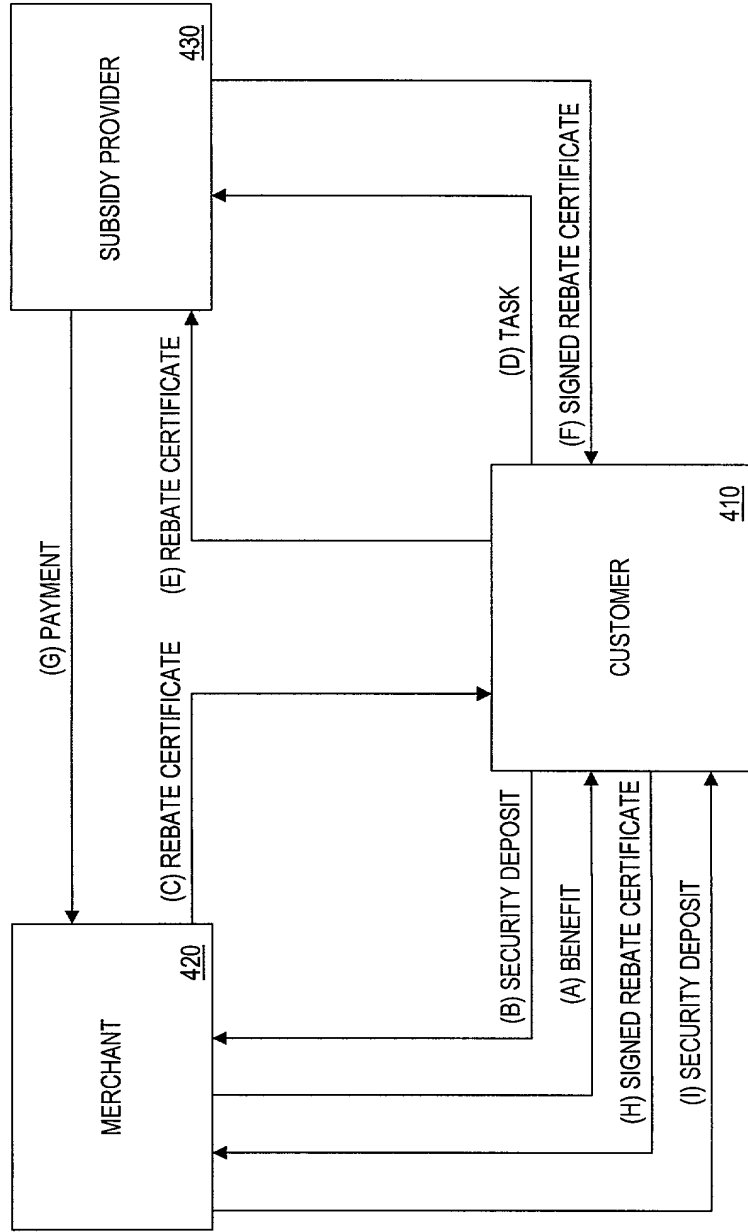


FIG. 4A

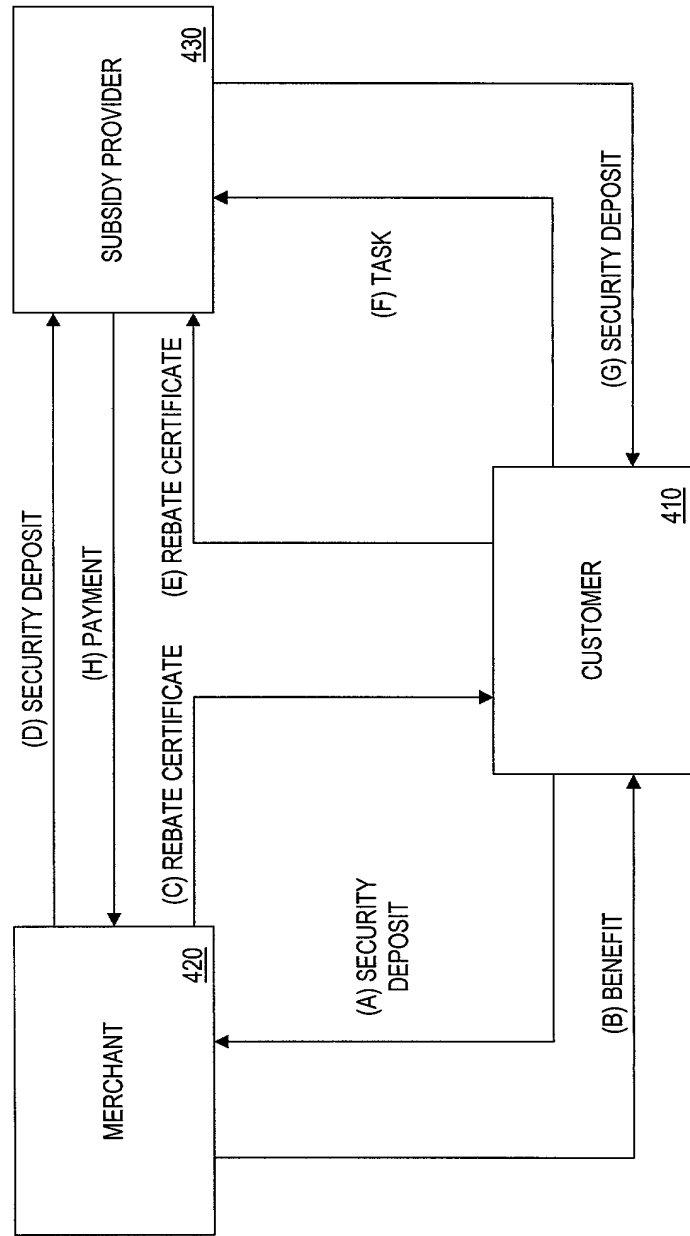


FIG. 4B

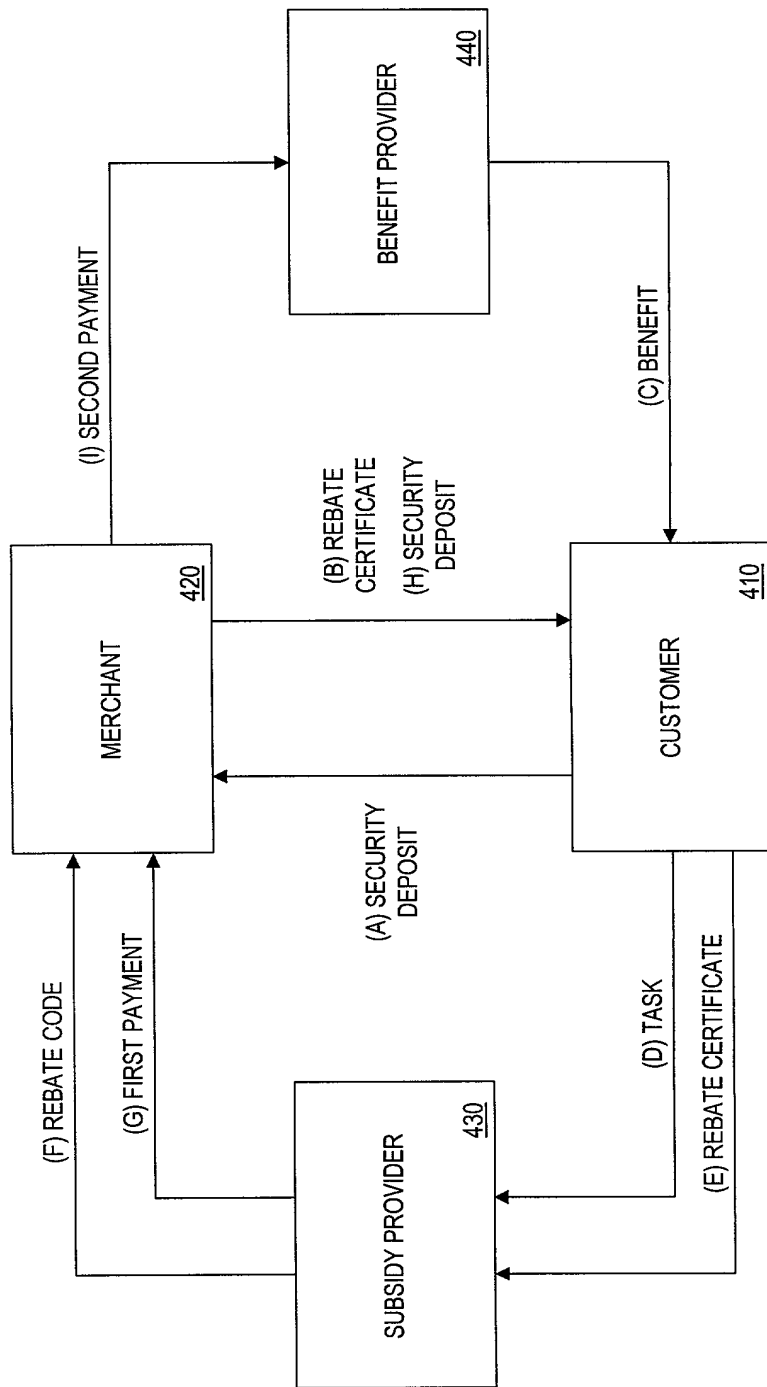


FIG. 4C

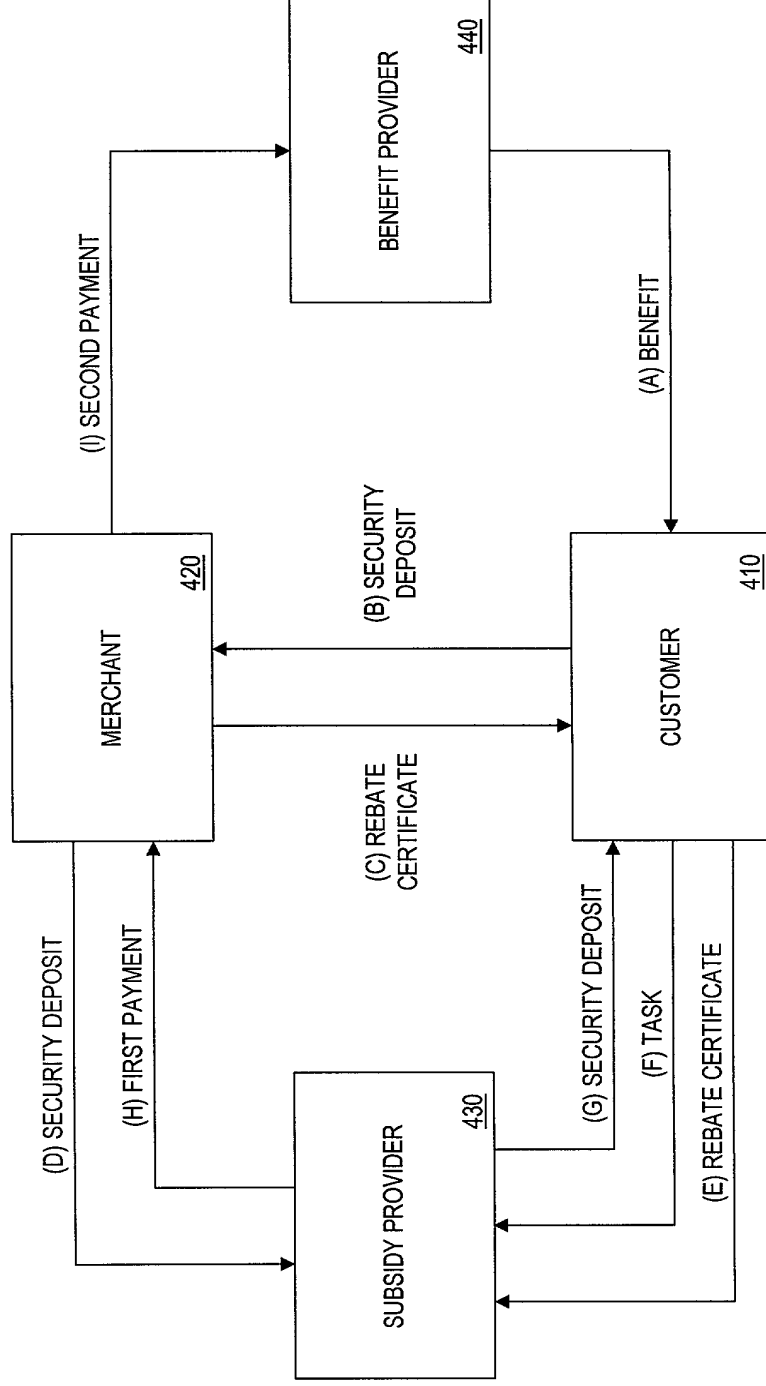


FIG. 4D



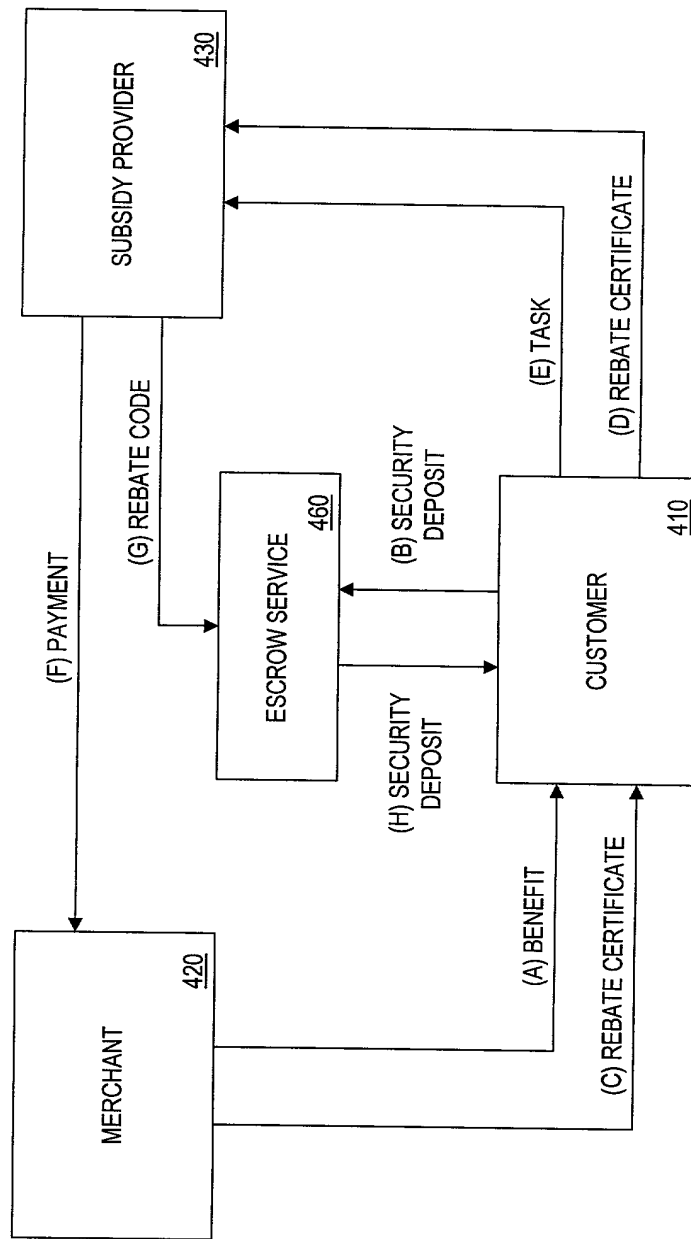


FIG. 4E

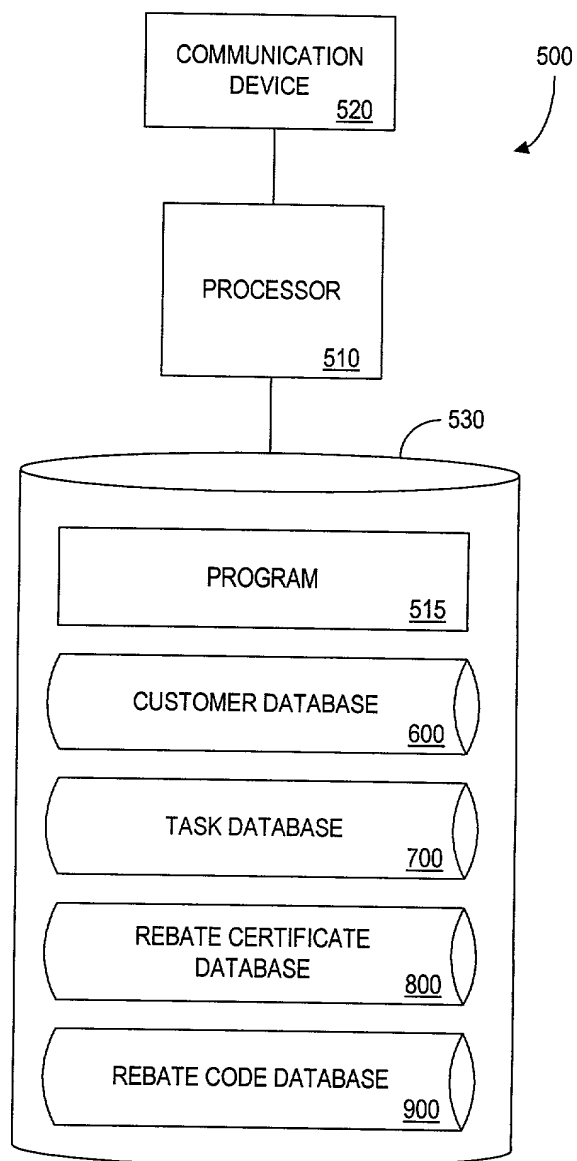


FIG. 5

600

CUSTOMER IDENTIFIER 602	NAME 604	CONTACT INFORMATION 606	PAYMENT IDENTIFIER 608
C-1-2345234	JENNIFER JAMES	32 GARDEN ROW BELLTOWN, USA	1234-1244-2345-3456 (CREDIT CARD)
C-2-2345234	MICHAEL SMITH	TROLL@BRIDGE.COM	3458-0239-0283-0293 (DEBIT CARD)
C-3-2345234	DAVID STONE	(333)555-3333	BGG@PAY.COM
C-4-2345234	SUSAN PETERS	(478)555-2890	0982-3245-7642-8933 (CREDIT CARD)
C-5-2345234	KEVIN WRIGHT	SDI93K@AOL.COM	BANK ACCOUNT NUMBER

FIG. 6

700

TASK IDENTIFIER 702	DESCRIPTION OF TASK 704	SUBSIDY PROVIDER 706	BENEFIT FOR PERFORMING TASK 708	SECURITY DEPOSIT 710
TASK-1-093824	TEST DRIVE A CAR	LARRY'S CAR DEALERSHIP	FREE GROCERIES (UP TO \$50)	\$25
TASK-2-093824	FILL OUT TEN SURVEYS OVER THE NEXT TEN WEEKS	MARKETING INTERNATIONAL	50 HALF-PRICE TOKENS	\$20
TASK-3-093824	REFER FIVE FRIENDS	PYRAMID, INC.	10% DISCOUNT ON PURCHASE	VALUE OF DISCOUNT
TASK-4-093824	SELL AN ITEM THROUGH EBAY.COM	EBAY.COM®	\$5 OFF ORDER OF \$5 OR MORE	\$5
TASK-5-093824	ATTEND A REAL ESTATE PRESENTATION	CENTURY 21®	FREE SUBSCRIPTION TO MAD MAGAZINE	10 TOKENS

FIG. 7

800

REBATE CERTIFICATE IDENTIFIER 802	CUSTOMER IDENTIFIER 804	TASK IDENTIFIER 806	TASK DEADLINE 808	TASK STATUS 810
RC-1-FROG-234	C-1-2345234	TASK-1-093824	8/16/00	COMPLETE
RC-2-DUCK-534	C-2-2345234	TASK-2-093824	6/30/00	PENDING
RC-3-PIG-752	C-3-2345234	TASK-1-093824	7/4/00	OVERDUE
RC-4-DOG-209	C-4-2345234	TASK-4-093824	8/15/00	COMPLETE
RC-5-CAT-275	C-5-2345234	TASK-5-093824	10/10/00	PENDING

FIG. 8

900

REBATE CODE	SUBSIDY PROVIDER
<u>902</u>	<u>904</u>
CODE-1-031415	LARRY'S CAR DEALERSHIP
CODE-2-031415	MARKETING INTERNATIONAL
CODE-3-031415	PYRAMID, INC.
CODE-4-031415	EBAY.COM®
CODE-5-031415	CENTURY 21®

FIG. 9

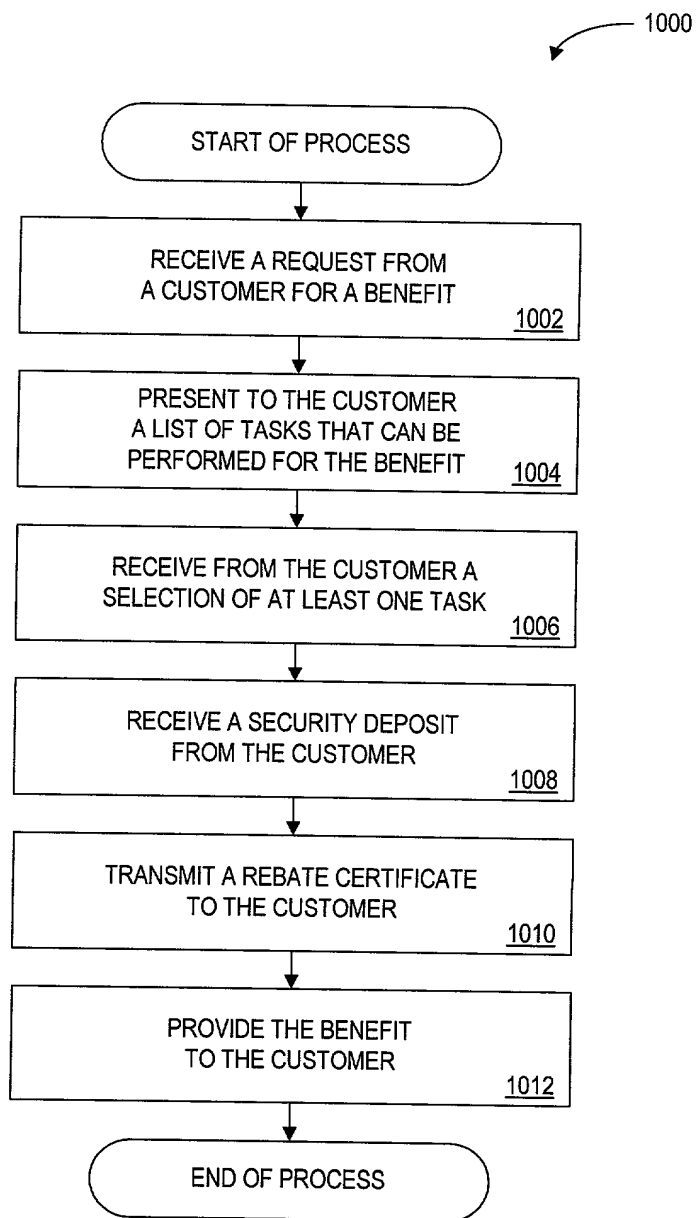


FIG. 10

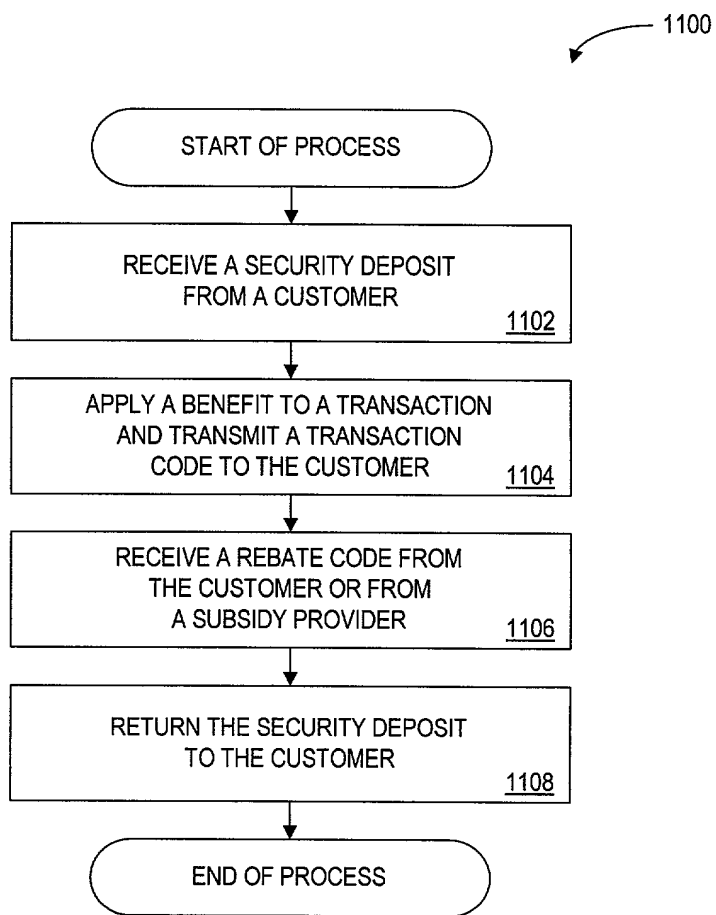


FIG. 11



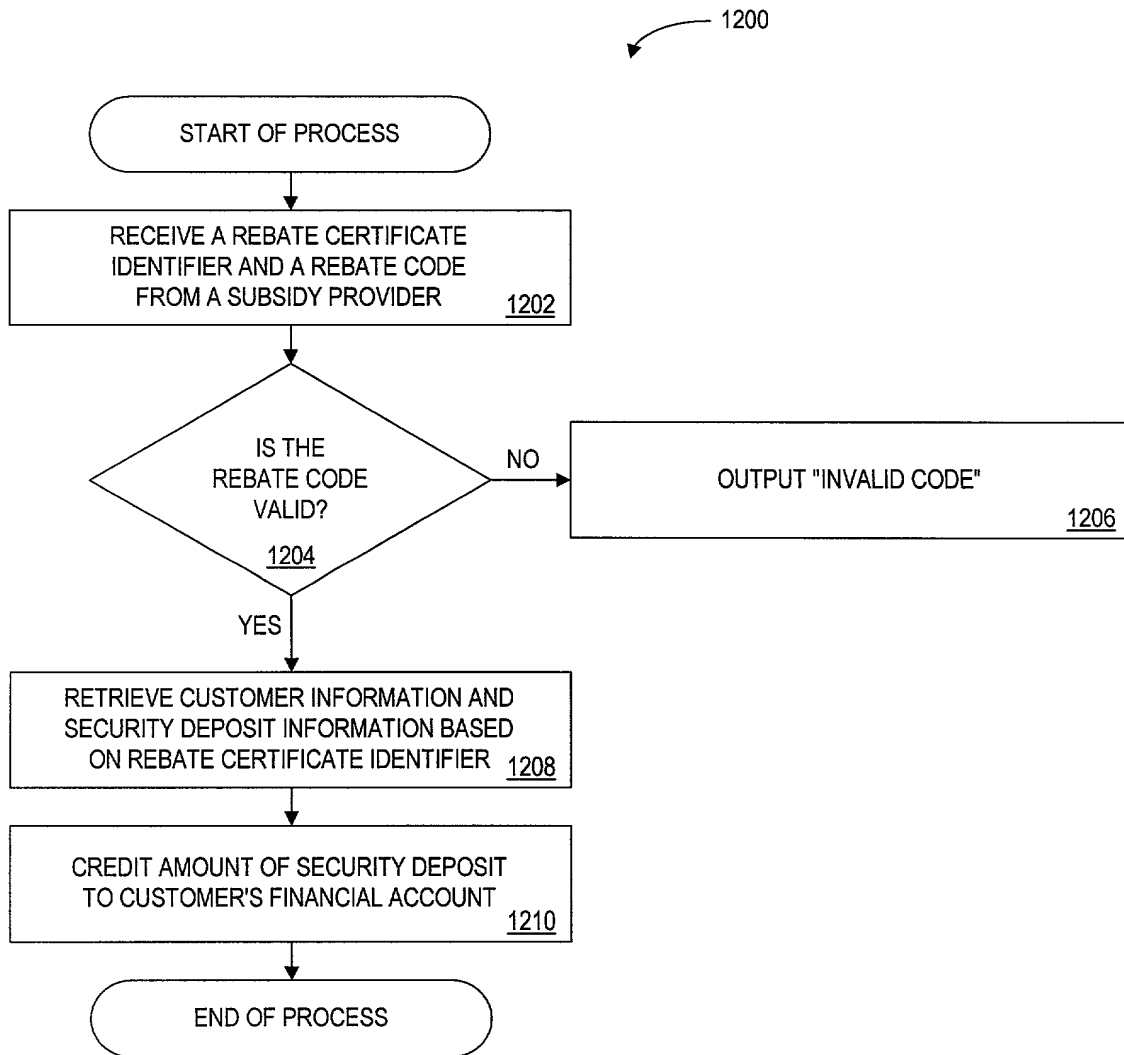


FIG. 12

Docket No.  
00-039

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**SYSTEMS AND METHODS WHEREIN A SECURITY DEPOSIT FACILITATES A TRANSACTION IN WHICH A BENEFIT IS APPLIED IN EXCHANGE FOR PERFORMANCE OF A TASK**

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

\_\_\_\_\_  
(Number)

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(Country)

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(Day/Month/Year Filed)

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\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

<u>60/208,731</u>	<u>June 2, 2000</u>
(Application Serial No.)	(Filing Date)
<u>                    </u>	<u>                    </u>
(Application Serial No.)	(Filing Date)
<u>                    </u>	<u>                    </u>
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

<u>                    </u>	<u>                    </u>	<u>                    </u>
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*



**22927**

PATENT TRADEMARK OFFICE

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Sole or first inventor's signature 	Date <b>9/26/01</b>
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Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

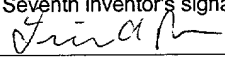
Full name of second inventor, if any <b>Daniel E. TEDESCO</b>	
Second inventor's signature 	Date <b>9/27/00</b>
Residence <b>49 Kings Highway North, Westport, Connecticut, 06880</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

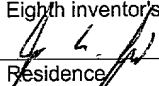
Full name of third inventor, if any <b>Michiko KOBAYASHI</b>	
Third inventor's signature <i>Michiko Kobayashi</i>	Date 9/22/2000
Residence <b>59 Somerset Lane, Stamford, Connecticut 06903</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

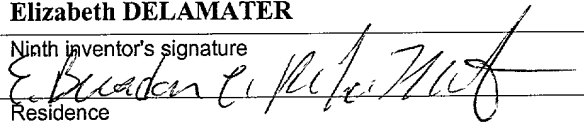
Full name of fourth inventor, if any <b>Andrew P. GOLDEN</b>	
Fourth inventor's signature <i>Andrew P. Golden</i>	Date 9/22/00
Residence <b>444 Bedford Street, Apt. 2A, Stamford, Connecticut 06901</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of fifth inventor, if any <b>Scott B. ALLISON</b>	
Fifth inventor's signature <i>Scott B. Allison</i>	Date 10/4/00
Residence <b>269 Red Fox Road, Stamford, Connecticut 06903</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of sixth inventor, if any <b>Geoffrey M. GELMAN</b>	
Sixth inventor's signature <i>Geoffrey M. Gelman</i>	Date 10/4/00
Residence <b>21 Belltown Road, Stamford, Connecticut 06905</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of seventh inventor, if any <b>Timothy A. PALMER</b>	
Seventh inventor's signature 	Date 9/22/00
Residence <b>77 Prospect Street, #9B, Stamford, Connecticut 06901</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of eighth inventor, if <b>James A. JORASCH</b>	
Eighth inventor's signature 	Date 9/22/00
Residence <b>25 Forest Street, Apt. 5G, Stamford, Connecticut 06901</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of ninth inventor, if any <b>Elizabeth DELAMATER</b>	
Ninth inventor's signature 	Date 9/22/00
Residence <b>2116B Willowwood, Lane Scott AFB, IL 62225</b>	
Citizenship <b>USA</b>	
Post Office Address <b>S/A</b>	

Full name of tenth inventor, if any	
Tenth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	